

PHARMACEUTICAL COMPOSITIONS CONTAINING COMPOUNDS  
WITH ACTIVITY FOR THE ENHANCEMENT OF ABSORPTION OF  
ACTIVE INGREDIENTS

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- 5 The invention described herein refers to pharmaceutical compositions, to the use of compounds as agents with activity for the enhancement of absorption of active ingredients and to specific compounds, all according to the general sections of claims 1, 2, 5, 6 and 10 hereinafter.
- The problems related to percutaneous absorption of active ingredients in
- 10 topical and transdermal pharmaceutical presentations (drug delivery systems) is known and has been the subject matter of patents [1] Percutaneous absorption: mechanisms-methodology-drug delivery, 2 Ed., Bronaugh Maibach, MARCEL DEKKER INC.
- Among the most significant examples reported in scientific literature it is
- 15 possible to mention the enhancing activity of decylmethylsulfoxide in increasing percutaneous absorption of idoxuridine [2] Touitou, E. (1988), Int. J. Pharm. 43:1. The effect of dodecylazacycloheptan-2-one (Laurocapram, Azone) in enhancing absorption of various molecules was investigated by Stoughton [3] Stoughton, R. B. (1982), Arch. Dermatol.
- 20 118: 474 and by Sugibayashi [4] Sugibayashi, K., Hosoya, K. Morimoto, Y., and Higuchi, W. I. (1985), J. Pharm. Pharmacol. 37: 578.
- Substances made available on the market and initially used in fields other than the pharmaceutical sector, subsequently proved to be of remarkable

importance also for the pharmaceutical industry. Among these, we can find the Perfluoropolyether class of compounds (PFPE) [5] obtained by polymerization of hexafluoropropene with oxygen activated by UV radiation and subsequent treatment to obtain a cosmetic product [6] as an excipient for preparations used in the manufacture of products with a barrier effect [7].

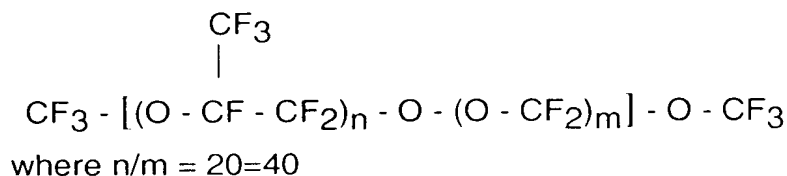
#### SUMMARY OF THE INVENTION

The following invention consists in the use of PFPE to enhance absorption of pharmacologically active ingredients in topical pharmaceutical presentations and/or in transdermal formulations (drug delivery systems) containing mixtures of at least one active ingredient for the enhancement of absorption.

These compounds, if included in pharmaceutical presentations containing an association or at least one active ingredient, can modify the permeating capacity of the active ingredients through the skin, demonstrating a surprising and unexpected capacity to promote the penetration of the active ingredient.

In accordance with the first aspect of the invention, inclusion of a quantity of PFPE may be applied in traditional topical formulations such as, for example, but not limited to: creams, liquid emulsions, ointments, lotions, microemulsions, foams, gels, aspersion powders; and in transdermal formulations (drug delivery systems).

The term PFPE means molecules with a chemical structure



with molecular weights between 650 and 6250,

C.A.S. name: 1-Propene,1,1,2,3,3,3-hexafluoro-,oxidized and polymerized

C.A.S. number: 69991-67-9

Surprisingly, it was found that inclusion of a quantity of PFPE at

- 10 concentrations between 0.01% w/w and 60% w/w, in topical and/or transdermal (drug delivery systems) formulations, increases the percutaneous absorption of active ingredients by over 5-20 times their normal value, thus enabling improved absorption and optimization of their systemic effects through suitable pharmaceutical presentations.

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#### DETAILED DESCRIPTION OF THE INVENTION

Comprehension of the invention is facilitated by the description of a number of assessments on the percutaneous absorption of certain formulations containing different active ingredients.

- 20 **Example A** illustrates the increase in permeability by approx. 10 times of a formulation containing Troxerutine and 3% PFPE as compared with that of a reference formulation.

**Example B** demonstrates the correlation between PFPE concentration and percutaneous absorption of formulations containing Nimesulide and increasing concentrations of PFPE.

**Example C** contains a comparison of the permeation speed of  
5 formulations containing non-steroidal antiinflammatory drugs versus formulations to which 3% PFPE has been added.

**Example A**

Verification of the percutaneous absorption of TROXERUTINE through pig  
skin using various formulations containing different types of absorption  
10 enhancers. In particular, this involved investigation of the release of TROXERUTINE from formulations containing PFPE, Nor-chenodeoxycolic acid and transcitol, versus a reference formulation.

Experimental section:

Apparatus: Franz Cells (manufacturer: Crown Glass Company Inc., New  
15 Jersey)

Franz diffusion cells are one of the main systems used for  
the investigation of ex-vivo permeation. This study involved  
the use of three cells each with a 9 mm diameter donor  
compartment corresponding with a diffusion area of 64 mm<sup>2</sup>.  
20 The receptor compartment has a capacity of 4.8 ml. The  
receptor chamber is heated to 37°C±1.

Test system: HPLC, Gilson, Mod. 305 with Spectra Physics detector,  
Spectra 200 Mod.

Formulations:

	A	B	C	D
Troloxerutine	3	3	3	3
Phosphatidylcholine	7	7	7	7
Tocopherol acetate	0.5	0.5	0.5	0.5
Sepigel 305	4	4	4	4
Methyl-p-hydroxybenzoate	0.15	0.15	0.15	0.15
Propyl-p-hydroxybenzoate	0.05	0.05	0.05	0.05
Phenoxyethanol	1	1	1	1
PFPE	3	-	-	-
Nor-chenodeoxycolic acid	-	0.4	-	-
Transcutol	-	-	15	-
Purified water q.s. to:	100	100	100	100

Preparation of the skin

The pig skin samples were taken from the internal ear of pigs that had just been sacrificed.

- 5 The samples were soaked in buffer solution at pH 7.4 for 24 hours at 4°C. The sections of connective tissue and muscle were subsequently removed from the skin and the sample was cut into 2x2 cm squares. The skin samples were stored at -20°C.

HPLC Operating Test Conditions

- 10 Column: KP 18, 5 micron Licrospher 100  
 Mobile phase: 20% acetonitrile 80% phosphate buffer at pH 6.6  
 Flow: 1 ml/min  
 Pressure: 1.52 Kpsi  
 Wavelength: 245 nm  
 15 RT: 8.51

### Procedure

The pig skin is placed between the donor compartment and the receptor chamber with the external skin surface facing the upper compartment. The test formulation is placed inside the donor compartment.

- 5 The receptor chamber is filled with a phosphate buffer solution at pH 7.4 and at intervals between 0.5 and 8 hours, 2 ml of solution are drawn from this chamber. When each sample is taken fresh buffer solution heated to 37°C is added in order to replenish the initial volume. The samples are then tested using a HPLC method. Each test is repeated three times.

### 10 Results

The results on percutaneous absorption are summarized in the table below

TIME (h)	mcg of permeated Troxerutine			
	A	B	C	D
0.5	18.89	13.26	8.29	13.7
1	77.48	43.04	17.17	50.51
2	345.29	102.6	58.19	232.84
4	1,289.11	390.80	229.46	636.68
6	3,999.07	614.95	530	1,053.09
8	12,042	1,090	714.6	1,434.90

### Conclusions

- Formulations B, C, D did not show any difference in absorption, whilst at
- 15 the eighth hour, formulation A containing PFPE, demonstrated a degree of absorption that was about 9-10 times greater than that of reference formulation D.

**Example B**

Verification of the absorption of NIMESULIDE through pig skin, using Franz cells, as described in Example A, using various formulations containing different concentrations of PFPE versus a reference formulation.

Formulations:

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Nimesulide	5	5	5	5
Lactic acid	2	2	2	2
Ethyl alcohol 95°	4	4	4	4
Glycerine	5	5	5	5
PFPE	-	1.5	3	4.5
Sepigel 305	4	4	4	4
Phosphatidylcholine	2	2	2	2
Methyl-p-hydroxybenzoate	0.15	0.15	0.15	0.15
Propyl-p-hydroxybenzoate	0.05	0.05	0.05	0.05
Purified water q.s. to:	100%	100%	100%	100%

Results

The results on permeability are summarized in the following table

<b>TIME (h)</b>	<b>mcg of permeated Nimesulide</b>			
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
0.5	0.15	0.16	0.59	0.83
1	0.27	0.39	0.59	1.21
2	0.35	0.72	0.97	1.70
4	0.86	1.14	1.24	1.91
6	1.15	1.54	2.21	2.38
8	1.54	2.24	3.21	3.73
24	3.53	6.00	9.71	9.86

### Conclusions

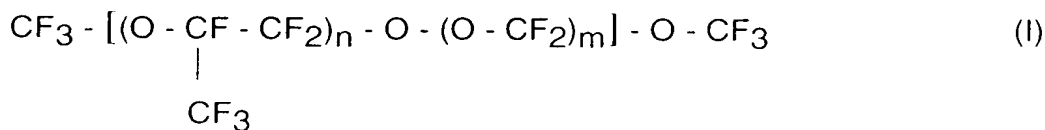
Formulations B, C, D demonstrated an increasing capacity to permeate the skin; this permeating capacity is correlated with the increasing percentage content of PFPE.

### 5 **Example C**

Verification of absorption after 8 hours, of topical formulations containing antiinflammatory drugs versus formulations which also contain 3% PFPE, through pig skin, using Franz cells, as described in Example A.

Active ingredient contained in the topical formulation	mcg of permeated active ingredient after 8 hours	
	Base formula	Base formula+3% PFPE
Ketoprofen	0.64	5.33
Diclofenac Sodium	1.82	8.66
Ibuprofen	0.21	6.84
Etodolic Acid	0.53	9.93
Piroxicam	1.19	7.94

- 10 The invention is characterized by the claims at the end of this description. According to the invention the pharmaceutical compositions contain, apart from one or more active ingredient(s), between 0.01 and 60% w/w of the compounds of formula I



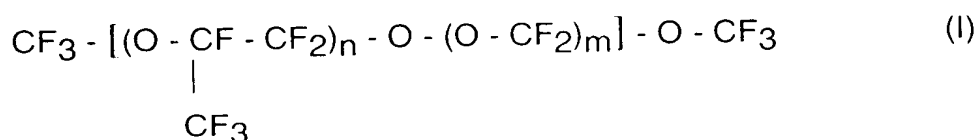


with n and m > 18 and < 46 and with molecular weights between ~600 and ~8000, as compounds with activity for the enhancement of active ingredient absorption.

Such pharmaceutical compositions may also contain between 0.01 and 20% w/w of Phosphatidylcholine, the compositions preferred are those with 0.1 to 30% w/w of the compounds of formula I with n and m > 24 and < 36 and with molecular weights between 1000 and 4000 and with 0.1 to 10% w/w of Phosphatidylcholine.

They may also contain other compatible ingredients that are present in the form of creams, emulsions, ointments, lotions, foams, gels and transdermal formulations.

The invention also includes the use of the compounds of formula I



with n and m > 18 and < 46, preferably > 24 and < 36, and with molecular weights between ~600 and ~8000, preferably between 1000 and 4000, in pharmaceutical compositions for topical external or internal use for the enhancement of absorption of active ingredients through the derma, cutis, mucosa, rectum, vagina and urethra, with or without Phosphatidylcholine. In particular, such use regards active ingredients that have anabolic, analgesic, androgenic, anesthetic, anorectic, anthelmintic, antiallergic, antiamebic, antiandrogenic, antianginal, antiarrhythmic,

- antiarteriosclerotic, antiarthritic and antirheumatic, antibacterial, anticholinergic, anticonvulsant, antidepressant, antidiabetic, antidiarrheal, antidiuretic, antiestrogenic, antibiotic, antiglaucoma, antigonatropic, antihistaminic, antihyperlipoproteinemic, antihyperthyroid,
- 5 antihypertensive, anti-inflammatory, antimalarial, antimigraine, antinauseant, antineoplastic, antiparkinsonian, antiprotozoal, antipruritic, antipsoriatic, antipsychotic, antipyretic, antiseptic, antispasmodic, antithrombotic, antitussive, antiulcer, antiviral, anxiolytic, bronchodilator, CA-blocking or regulating, cardiotonic, stimulating, decongestant, diuretic
- 10 or enzymatic effect.
- More specifically, use of this invention regards Troxerutine and Nimesulide and, also
- 1)  $\alpha$ -Adrenergic agonists such as** Adrafinil. Adrenolone. Amidephrine. Apraclonidine. Budralazine. Clonidine. Cyclopentamine. Detomidine.
- 15 Dimetofrine. Dipivefrin. Ephedrine. Epinephrine. Fenoxazoline. Guanabenz. Guanfacine. Hydroxyamphetamine. Ibopamine. Indanazoline. Isometheptene. Mephentermine. Metaraminol. Methoxamine Hydrochloride. Methylhexanamine. Metizolene. Midodrine. Naphazoline. Norepinephrine. Norfenefrine. Octodrine. Octopamine. Oxymetazoline.
- 20 Phenylephrine Hydrochloride. Phenylpropanolamine Hydrochloride. Phenylpropylmethylamine. Pholedrine. Propylhexedrine. Pseudoephedrine. Rilmenidine. Synephrine. Tetrahydrozoline. Tiamenidine. Tramazoline. Tuaminoheptane. Tymazoline. Tyramine and

Xylometazoline.

**2)  $\beta$ -Adrenergic agonists such as** Albuterol. Bambuterol. Bitolterol.

Carbuterol. Clenbuterol. Clorprenaline. Denopamine. Dioxethedrine.

Dopexamine. Ephedrine. Epinephrine. Etafedrine. Ethylnorepinephrine.

5 Fenoterol. Formoterol. Hexoprenaline. Ibopamine. Isoetharine.

Isoproterenol. Mabuterol. Metaproterenol. Methoxyphenamine. Oxyfedrine.

Pirbuterol. Prenalterol. Procaterol. Protokylol. Reproterol. Rimiterol.

Ritodrine. Soterenol. Terbuterol and Xamoterol.

**3)  $\alpha$ -Adrenergic blockers such as** Amosulalol. Arotinolol. Dapiprazole.

10 Doxazosin. Ergoloid Mesylates. Fenspiride. Indoramin. Labetalol.

Nicergoline. Prazosin. Terazosin. Tolazoline. Trimazosin and Yohimbine.

**4)  $\beta$ -Adrenergic blockers such as** Acebutolol. Alprenolol. Amosulalol.

Arotinolol. Atenolol. Befunolol. Betaxolol. Bevantolol. Bisoprolol.

Bopindolol. Bucumolol. Bufetolol. Bufuralol. Bunitrolol. Bupranolol.

15 Butidine Hydrochloride. Butofilolol. Carazolol. Carteolol. Carvedilol.

Celiprolol. Cetamolol. Cloranolol. Dilevalol. Epanolol. Esmolol. Indenolol.

Labetalol. Levobunolol. Mepindolol. Metipranolol. Metoprolol. Moprolol.

Nadoxolol. Nifenalol. Nipradilol. Oxprenolol. Penbutolol. Pindolol.

Practolol. Pronethalol. Propranolol. Sotalol. Sulfinalol. Talinolol. Tertatolol.

20 Timolol. Toliprolol and Xibenolol.

**5) Alcohol deterrents such as** Calcium Cyanamide Citrated.

Disulfiram. Nadide and Nitrefazole.

**6) Aldose reductase inhibitors such as** Epalrestat. Ponalrestat.

Sorbinil and Tolrestat.

**7) Anabolics such as** Androisoxazole. Androstenediol. Bolandiol.

Bolasterone. Clostebol. Ethylestrenol. Formyldienolone. 4-Hydroxy-19-nortestosterone. Methandriol. Methenolone. Methyltrienolone. Nandrolone.

5 Nandrolone Decanoate. Nandrolone p-Hexyloxyphenylpropionate.

Nandrolone Phenpropionate. Norbolethone. Oxymesterone. Pizotyline.

Quinbolone. Stenbolone and Trenbolone.

**8) Analgesics (dental) such as** Chlorobutanol. Clove and Eugenol.

**9) Analgesics (narcotic) such as** Alfentanil. Allylprodine.

10 Alphaprodine. Anileridine. Benzylmorphine. Bezitramide. Buprenorphine.

Butorphanol. Clonitazene. Codeine. Codeine Methyl Bromide. Codeine Phosphate. Codeine Sulfate. Desomorphine. Dextromoramide. Dezocine.

Diampromide. Dihydrocodeine. Dihydrocodeinone Enol Acetate.

Dihydromorphine. Dimenoxadol. Dimepheptanol. Dimethylthiambutene.

15 Dioxaphetyl Butyrate. Dipipanone. Eptazocine. Ethoheptazine.

Ethylmethylthiambutene. Ethylmorphine. Etonitazene. Fentanyl.

Hydrocodone. Hydromorphone. Hydroxypethidine. Isomethadone.

Ketobemidone. Levorphanol. Lofentanil. Meperidine. Meptazinol.

Metazocine. Methadone Hydrochloride. Metopon. Morphine. Morphine

20 Derivatives. Myrophine. Nalbuphine. Narceine. Nicomorphine.

Norlevorphanol. Normethadone. Normorphine. Norpipanone. Opium.

Oxycodone. Oxymorphone. Papaveretum. Pentazocine. Phenadoxone.

Phenazocine. Phenoperidine. Piminodine. Piritramide. Proheptazine.

Promedol. Properidine. Propiram. Propoxyphene. Sufentanil and Tilidine.

**10) Analgesics (non-narcotic) such as Acetaminophen.**

Acetaminosalol. Acetanilide. Acetylsalicylsalicylic Acid. Alclofenac.

Alminoprofen. Aloxiprin. Aluminum Bis (acetylsalicylate).

5 Aminochlorthenoxazin. 2-Amino-4-picoline. Aminopropylon. Aminopyrine.

Ammonium Salicylate. Antipyrine. Antipyrine Salicylate. Antrafenine.

Apazone. Aspirin. Benorylate. Benoxaprofen. Benzpiperylon.

Benzydamine. p-Bromoacetanilide. 5-Bromosalicylic Acid Acetate.

Bucetin. Bufexamac. Bumadizon. Butacetin. Calcium Acetylsalicylate.

10 Carbamazepine. Carbetidine. Carbiphene. Carsalam. Chloralantipyrine.

Chlorthenoxazin(e). Choline Salicylate. Cinchophen. Ciramadol.

Clometacin. Cropropamide. Crotethamide. Dexoxadrol. Difenamizole.

Diflunisal. Dihydroxyaluminum Acetylsalicylate. Dipyroceryl. Dipyrone.

Emorfazone. Enfenamic Acid. Epirizole. Etersalate. Ethenzamide.

15 Ethoxazene. Etodolac. Felbinac. Fenoprofen. Floctafenine. Flufenamic

Acid. Fluoresone. Flupirtine. Fluproquazone. Flurbiprofen. Fosfosol.

Gentisic Acid. Glafenine. Ibuprofen. Imidazole Salicylate. Indomethacin.

Indoprofen. Isofezolac. Isoladol. Isonixin. Ketoprofen. Ketorolac. p-

Lactophenetide. Lefetamine. Loxoprofen. Lysine Acetylsalicylate.

20 Magnesium Acetylsalicylate. Methotrimprazine. Metofoline. Miroprofen.

Morazone. Morpholine Salicylate. Naproxen. Nefopam. Nifenazone.

5'Nitro-2'propoxyacetanilide. Parsalmide. Perisoxal. Phenacetin.

Phenazopyridine Hydrochloride. Phenocoll. Phenopyrazone. Phenyl

Acetylsalicylate. Phenyl Salicylate. Phenyramidol. Pipebuzone. Piperylone. Prodilidine. Propacetamol. Propyphenazone. Proxazole. Quinine Salicylate. Ramifenazone. Rimazolium Metilsulfate. Salacetamide. Salicin. Salicylamide. Salicylamide O-Acetic Acid. Salicylsulfuric Acid. Salsalate.

- 5 Salverine. Simetride. Sodium Salicylate. Sulfamipyrine. Suprofen. Talniflumate. Tenoxicam. Terofenamate. Tetradrine. Tinoridine. Tolfenamic Acid. Tolpronine. Tramadol. Viminol. Xenbucin and Zomepirac.

**11) Androgens such as** Boldenone. Fluoxymesterone. Mestanolone. Mesterolone. Methandrostenolone. 17-Methyltestosterone.

- 10 Methyltestosterone. 17 $\alpha$ -Methyltestosterone 3-Cyclopentyl Enol Ether. Norethandrolone. Normethandrone. Oxandrolone. Oxymesterone. Oxymetholone. Prasterone. Stanolone. Stanozolol. Testosterone. Testosterone 17-Chloral Hemiacetal. Testosterone 17 $\beta$ -Cypionate. Testosterone Enanthate. Testosterone Nicotinate. Testosterone Phenyl  
15 Acetate. Testosterone Propionate and Tiomesterone.

**12) Anesthetics (intravenous) such as** Acetamidoeugenol. Alfadolone Acetate. Alfaxalone. Ambucaine. Amolanone. Amylocaine Hydrochloride. Benoxinate. Betoxycaine. Biphenamine. Bupivacaine. Butacaine. Butamben. Butanilicaine. Butethamine. Buthalital Sodium. Butoxycaine.

- 20 Carticaine. 2-Chloroprocaine Hydrochloride. Cocaethylene. Cocaine. Cyclomethycaine. Dibucaine Hydrochloride. Dimethisoquin. Dimethocaine. Dipiperodon Hydrochloride. Dyclonine. Ecgonidine. Ecgonine. Ethyl Aminobenzoate. Ethyl Chloride. Etidocaine. Etoxadrol.  $\beta$ -Eucaine.

- Euprocin. Fenalcomine. Fomocaine. Hexobarbital. Hexylcaine Hydrochloride. Hydroxydione Sodium. Hydroxyprocaine. Hydroxytetracaine. Isobutyl p-Aminobenzoate. Kentamine. Leucinocaine Mesylate. Levoxadrol. Lidocaine. Mepivacaine. Meprylcaine Hydrochloride. Metabutoxycaine Hydrochloride. Methohexital Sodium. Methyl Chloride. Midazolam. Myrtecaine. Naepaine. Octacaine. Orthocaine. Oxethazaine. Parethoxycaine. Phenacaine Hydrochloride. Phencyclidine. Phenol. Piperocaine. Piridocaine. Polidocanol. Pramoxine. Prilocaine. Procaine. Propanidid. Propanocaine. Proparacaine. Propipocaine. Propofol. Propoxycaine Hydrochloride. Pseudococaine. Pyrrocaine. Quinine Urea Hydrochloride. Risocaine. Salicyl Alcohol. Tetracaine Hydrochloride. Thialbarbital. Thimylal. Thiobutabarbital. Thiopental Sodium. Tolycaine. Trimecaine and Zolamine.
- 13) Anorectics such as** Aminorex. Amphecloral. Amphetamine. Benzphetamine. Chlorphentermine. Clobenzorex. Cloforex. Clortermine. Cyclexedrine. Dextroamphetamine Sulfate. Diethylpropion. Diphemethoxidine. N-Ethylamphetamine. Fenbutrazate. Fenfluramine. Fenproporex. Furfurylmethylamphetamine. Levophacetoprate. Mazindol. Mefenorex. Metamfepramone. Methamphetamine. Norpseudoephedrine.
- 14) Anthelmintics (Cestodes) such as** Arecoline. Aspidin. Aspidinol. Dichlorophen(e). Embelin. Kosin. Napthalene. Niclosamide. Pellertierine.

Pellertierine Tannate and Quinacrine.

**15) Anthelmintics (Nematodes) such as** Alantolactone. Amoscanate.

Ascaridole. Bephenium. Bitoscanate. Carbon Tetrachloride. Carvacrol.

Cyclobendazole. Diethylcarbamazine. Diphenane. Dithiazanine Iodide.

5 Dymanthine. Gentian Violet. 4-Hexylresorcinol. Kainic Acid. Mebendazole.

2-Naphthol. Oxantel. Papain. Piperazine. Piperazine Adipate. Piperazine

Citrate. Piperazine Edetate Calcium. Piperazine Tartrate. Pyrantel.

Pyvinium Pamoate.  $\alpha$ -Santonin. Stilbazium Iodide. Tetrachloroethylene.

Tetramisole. Thiabendazole. Thymol. Thymyl N-Isoamylcarbamate.

10 Triclofenol Piperazine and Urea Stibamine.

**16) Anthelmintics (Onchocerca) such as** Ivermectin and Suramin Sodium.

**17) Anthelmintics (Schistosoma) such as** Amoscanate. Amphotalide.

Antimony Potassium Tartrate. Antimony Sodium Gluconate. Antimony

15 Sodium Tartrate. Antimony Sodium Thioglycollate. Antimony

Thioglycollamide. Becanthone. Hycanthone. Lucanthone Hydrochloride.

Niridazole. Oxamniquine. Praziquantel. Stibocaptate. Stibophen and Urea Stibamine.

**18) Anthelmintics (Trematodes) such as** Anthiolimine and

20 Tetrachloroethylene.

**19) Antiacne drugs such as** Algestone Acetophenide. Azelaic Acid.

Benzoyl Peroxide. Cyoctol. Cyproterone. Motretinide. Resorcinol. Retinoic

Acid and Tetroquinone.



- 20) Antiallergics such as** Amlexanox. Astemizole. Azelastine. Cromolyn. Fenpiprane. Histamine. Ibudilast. Nedocromil. Oxatomide. Pentigetide. Poison Ivy Extract. Poison Oak Extract. Poison Sumac Extract. Repirinast. Tranilast. Traxanox and Urushiol.
- 5 **21) Antiamebics such as** Arsthinol. Bialamicol. Carbarsone. Cephaeline. Chlorbetamide. Chloroquine. Chlorphenoxamide. Chlortetracycline. Dehydroemetine. Dibromopropamidine. Diloxanide. Diphetarsone. Emetine. Fumagillin. Glaucarubin. Glycobiarsol. 8-Hydroxy-7-iodo-5-quinolinesulfonic Acid. Iodochlorhydroxyquin. Iodoquinol.
- 10 **22) Antiandrogens such as** Bifluranol. Cyoctol. Cyproterone. Delmadinone Acetate. Flutamide. Nilutamide and Oxendolone.
- 15 **23) Antianginals such as** Acebutolol. Alprenolol. Amiodarone. Amlodipine. Arotinolol. Atenolol. Bepridil. Bevantolol. Bucumolol. Bufetolol. Bufuralol. Bunitrolol. Bupranolol. Carozolol. Carteolol. Carvedilol Celiprolol. Cinepazet Maleate. Diltiazem. Epanolol. Felodipine. Gallopamil. Imolamine. Indenolol. Isosorbide Dinitrate. Isradipine. Limaprost.
- 20 **24) Antiarrhythmics such as** Acetaminophen. Amiloride. Amiodarone. Amlodipine. Arotinolol. Atenolol. Bepridil. Bevantolol. Bucumolol. Bufetolol. Bufuralol. Bunitrolol. Bupranolol. Carozolol. Carteolol. Carvedilol Celiprolol. Cinepazet Maleate. Diltiazem. Epanolol. Felodipine. Gallopamil. Imolamine. Indenolol. Isosorbide Dinitrate. Isradipine. Limaprost. Mepindolol. Metoprolol. Molsidomine. Nadolol. Nicardipine. Nifedipine. Nifenalol. Nilvadipine. Nipradilol. Nisoldipine. Nitroglycerin. Oxprenolol. Oxyfedrine. Ozagrel. Penbutolol. Pentaerythritol Tetranitrate. Pindolol. Pronethalol. Propranolol. Sotalol. Terodiline. Timolol. Toliprolol and

Verapamil.

**24) Antiarrhythmics such as** Acebutolol. Acecainide Adenosine.

Ajmaline. Alprenolol. Amiodarone. Amoproxan. Aprindine. Arotinolol.

Atenolol. Bevantolol. Bretylium Tosylate. Bucumolol. Bufetolol. Bunaftine.

- 5 Bunitrolol. Bupranolol. Butidine Hydrochloride. Butobendine. Capobenic Acid. Carazolol. Carteolol. Cifenline. Cloranolol. Disopyramide. Encainide. Esmolol. Flecainide. Gallopamil. Hydroquinidine. Indecainide. Indenolol. Ipratropium Bromide. Lidocaine. Lorajmine. Lorcainide. Meobentine. Metipranolol. Mexiletine. Moricizine. Nadoxolol. Nifenalol. Oxprenolol.
- 10 Penbutolol. Pindolol. Pirmenol. Practolol. Prajmaline. Procainamide Hydrochloride. Pronethalol. Propafenone. Propranolol. Pyrinoline. Quinidine Sulfate. Quinidine. Sotalol. Talinolol. Timolol. Tocainide. Verapamil. Viquidil and Xibenolol.

**25) Antiarteriosclerotics such as** Pyridinol Carbamate.

- 15 **26) Antiarthritic/Antirheumatics such as** Allocupreide Sodium. Auranofin. Aurothioglucose. Aurothioglycanide. Azathioprine. Calcium 3-Aurothio-2-propanol-1-sulfonate. Chloroquine. Clobuzarit. Cuproxoline. Diacerein. Glucosamine. Gold Sodium Thiomalate. Gold Sodium Thiosulfate. Hydroxychloroquine. Kebuzone. Lobenzarit. Melittin.
- 20 Methotrexate. Myoral and Penicillamine.

**27) Antibacterial (antibiotic) drugs, including:**

*Aminoglycosides such as* Amikacin. Apramycin. Arbekacin.

Bambermycins. Butirosin. Dibekacin. Dihydrostreptomycin. Fortimicin(s).

Gentamicin. Isepamicin. Kanamycin. Micronomicin. Neomycin. Neomycin Undecylenate. Netilmicin. Paromomycin. Ribostamycin. Sisomicin.

Spectinomycin. Streptomycin. Streptonicozid and Tobramycin;

*Amphenicols such as* Azidamfenicol. Chloramphenicol. Chloramphenicol

5 Palmitate. Chloramphenicol Pantothenate. Florfenicol and Thiamphenicol;

*Ansamycins such as* Rifamide. Rifampin. Rifamycin and Rifaximin.

### **$\beta$ -Lactams including:**

*Carbapenems such as* Imipenem;

*Cephalosporins such as* Cefaclor. Cefadroxil. Cefamandole. Cefatrizine.

10 Cefazedone. Cefazolin. Cefixime. Cefmenoxime. Cefodizime. Cefonicid.

Cefoperazone. Ceforanide. Cefotaxime. Cefotiam. Cefpimizole.

Cefpiramide. Cefpodoxime Proxetil. Cefroxadine. Cefsulodin. Ceftazidime.

Cefteram. Ceftezole. Ceftibuten. Ceftizoxime. Ceftriaxone. Cefuroxime.

Cefuzonam. Cephacetrile Sodium. Cephalexin. Cephaloglycin.

15 Cephaloridie. Cephalosporin. Cephalothin. Cephapirin Sodium.

Cephradine and Pivcefalexin;

*Cephameycins such as* Cefbuperazone. Cefmetazole. Cefminox. Cefotetan and Cefoxitin;

*Monobactams such as* Aztreonam. Carumonam and Tigemonam;

20 *Oxacephems such as* Flomoxef and Moxolactam;

*Penicillins such as* Amidinocillin. Amdinocillin Pivoxil. Amoxicillin.

Ampicillin. Apalcillin. Aspoxicillin. Azidocillin. Azlocillin. Bacampicillin.

Benzympenicillinic Acid. Benzympenicillin Sodium. Carbenicillin. Carfecillin

- Sodium. Carindacillin. Clometocillin. Cloxacillin. Cyclacillin. Dicloxacillin. Diphenicillin Sodium. Epicillin. Fenbenicillin. Floxacillin. Hetacillin. Lenampicillin. Metampicillin. Methicillin Sodium. Mezlocillin. Nafcillin Sodium. Oxacillin. Penamecillin. Penethamate Hydriodide. Penicillin G
- 5 Benethamine. Penicillin G Benzathine. Penicillin G Benzhydrylamine. Penicillin G Calcium. Penicillin G Hydrabamine. Penicillin G Potassium. Penicillin G Procaine. Penicillin N. Penicillin O. Penicillin V. Penicillin V Benzathine. Penicillin V Hydrabamine. Penimepicycline. Phenethicillin Potassium. Piperacillin. Pivampicillin. Propicillin. Quinacillin. Sulbenicillin.
- 10 Talampicillin. Temocillin and Ticarcillin;  
*Lincosamides such as* Clindamycin and Lincomycin;  
*Macrolides such as* Azithromycin. Carbomycin. Clarithromycin. Erythromycin. Erythromycin Acistrate. Erythromycin Estolate. Erythromycin Glucoheptonate. Erythromycin Lactobionate. Erythromycin Propionate.
- 15 Erythromycin Stearate. Josamycin. Leucomycins. Midecamycins. Miokamycin. Oleandomycin. Primycin. Rokitamycin. Rosaramicin. Roxithromycin. Spiramycin and Troleandomycin;  
*Polypeptides such as* Amphomycin. Bacitracin. Capreomycin. Colistin. Enduracidin. Enviomycin. Fusafungine. Gramicidin(s). Gramicidin S.
- 20 Mikamycin. Polymyxin. Polymyxin B-Methanesulfonic Acid. Pristinamycin. Ristocetin. Teicoplanin. Thiostrepton. Tuberactinomycin. Tyrocidine. Tyrothricin. Vancomycin. Viomycin. Viomycin Pantothenate. Virginiamycin and Zinc Bacitracin;

- Tetracyclines such as Apicycline. Chlortetracycline. Clomocycline. Demeclocycline. Doxycycline. Guamecycline. Lymecycline. Meclocycline. Methacycline. Minocycline. Oxytetracycline. Penimepicycline. Pipacycline. Rolitetracycline. Sancycline. Senociclin and Tetracycline; and*
- 5 *other antibiotics such as Cycloserine. Mupirocin and Tuberin.*
- 28) Antibacterial drugs (synthetic), including:**
- 2.4-Diaminopyrimidines such as Brodimoprim. Tetroxoprim and Trimethoprim;*
- Nitrofurans such as Furaltadone. Furazolium Chloride. Nifuradene.*
- 10 *Nifuratel. Nifurfoline. Nifurpirinol. Nifurprazine. Nifurtoinol and Nitrofurantoin;*
- Quinolones and Analogs such as Amifloxacin. Cinoxacin. Ciprofloxacin. Difloxacin. Enoxacin. Fleroxacin. Flumequine. Lomefloxacin. Miloxacin. Nalidixic Acid. Norfloxacin. Ofloxacin. Oxolinic Acid. Pefloxacin. Pipemidic*
- 15 *Acid. Piromidic Acid. Rosoxacin. Temafloxacin and Tosufloxacin;*
- Sulfonamides such as Acetyl Sulfamethoxypyrazine. Acetyl Sulfisoxazole. Azosulfamide. Benzylsulfamide. Chloramine-B. Chloramine-T. Dichloramine T. Formosulfathiazole. N<sup>2</sup>Formylsulfisomidine. N<sup>2</sup>-β-D-Glucosylsulfanilamide. Mafenide. 4'-(Methylsulfamoyl) sulfanilamide. p-*
- 20 *Nitrosulfathiazole. Noprylsulfamide. Phthalylsulfacetamide. Phthalylsulfathiazole. Salazosulfadimidine. Succinylsulfathiazole. Sulfabenzamide. Sulfacetamide. Sulfachlorpyridazine. Sulfachrysoidine. Sulfacytine. Sulfadiazine. Sulfadicramide. Sulfadimethoxine. Sulfadoxine.*

Sulfaethidole. Sulfaguanidine. Sulfaguanol. Sulfalene. Sulfaloxic Acid.

Sulfamerazine. Sulfameter. Sulfamethazine. Sulfamethizole.

Sulfamethomidine. Sulfamethoxazole. Sulfamethoxypyridazine.

Sulfametrole. Sulfamidochrysoidine. Sulfamoxole. Sulfanilamide.

5 Sulfanilamidomethanesulfonic Acid Triethanolamine Salt. 4-

Sulfanilamidosalicylic Acid. N<sup>4</sup>-Sulfanilylsulfanilamide. Sulfanilylurea. N-

Sulfanilyl-3,4-xylamide. Sulfanitran. Sulfaperine. Sulfaphenazole.

Sulfaproxyline. Sulfapyrazine. Sulfapyridine. Sulfasomizole.

Sulfasymazine. Sulfathiazole. Sulfathiourea. Sulfatolamide. Sulfisomidine

10 and Sulfisoxazole;

*Sulfones such as* Acedapsone. Acediasulfone. Acetosulfone Sodium.

Dapsone. Diathymosulfone. Glucosulfone Sodium. Solasulfone.

Succisulfone. Sulfanilic Acid. p-Sulfanilylbenzylamine. p,p'-

Sulfonyldianiline-N,N'digalactoside. Sulfoxone Sodium and Thiazolsulfone;

15 and

*others such as* Clofoctol. Hexedine. Methenamine. Methenamine

Anhydromethylene-citrate. Methenamine Hippurate. Methenamine

Mandelate. Methenamine Sulfosalicylate. Nitroxoline and Xibornol.

**29) Anticholinergics such as** Adiphenine Hydrochloride. Alverine.

20 Ambutonium Bromide. Aminopentamide. Amixetrine. Amprotropine

Phosphate. Anisotropine Methylbromide. Apoatropine. Atropine. Atropine

N-Oxide. Benactyzine. Benapryzine. Benzetimide. Benzilonium Bromide.

Benztropine Mesylate. Bevonium Methyl Sulfate. Biperiden. Butropium

- Bromide. N-Butylscopolammonium Bromide. Buzepide. Camylofine.  
 Caramiphen Hydrochloride. Chlorbenzoxamine. Chlorphenoxamine.  
 Cimetropium Bromide. Clidinium Bromide. Cyclodrine. Cyclonium Iodide.  
 Cycrimine Hydrochloride. Deptropine. Dexetimide. Dibutoline Sulfate.
- 5 Dicyclomine Hydrochloride. Diethazine. Difemerine. Dihexyverine.  
 Diphemaniol Methylsulfate. N-(1,2-Diphenylethyl)nicotinamide.  
 Dipipraverine. Diponium Bromide. Emepronium Bromide. Endobenzylamine  
 Bromide. Ethopropazine. Ethylbenztropine. Ethylbenzhydramine.  
 Etomidoline. Eucatropine. Fenpiverinium Bromide. Fentionium Bromide.
- 10 Flutropium Bromide. Glycopyrrolate. Heteronium Bromide. Hexocyclium  
 Methyl Sulfate. Homatropine. Hyoscyamine. Ipratropium Bromide.  
 Isopropamide. Levomepate. Meclozamine. Mepenzolate Bromide.  
 Metcaraphen. Methantheline Bromide. Methixene. Methscopolamine  
 Bromide. Octamylamine. Oxybutynin Chloride. Oxyphenacyclimine.
- 15 Oxyphenonium Bromide. Pentapiperide. Penthienate Bromide.  
 Phencarbamide. Phenglutarimide. Pipenzolate Bromide. Piperidolate.  
 Piperilate. Poldine Methylsulfate. Pridinol. Prifinium Bromide. Procyclidine.  
 Propantheline Bromide. Propenzolate. Propyromazine. Scopolamine.  
 Scopolamine N-Oxide. Stilonium Iodide. Stramonium. Sultroponium.
- 20 Thihexinol. Thiphenamil. Tiemonium Iodide. Timepidium Bromide.  
 Tiquizium Bromide. Tridihexethyl Iodide. Trihexyphenidyl Hydrochloride.  
 Tropacine. Tropenzile. Tropicamide. Trospium Chloride. Valethamate  
 Bromide and Xenytropium Bromide.

- 30) Anticonvulsants such as** Acetylpheneturide. Albutoin. Aloxidone. Aminogluthethimide. 4-Amino-3-hydroxybutyric Acid. Atrolactamide. Beclamide. Buramate. Calcium Bromide. Carbamazepine. Cinromide. Clomethiazole. Clonazepam. Decimemide. Diethadione. Dimethadione.
- 5 Doxenitoin. Eterobarb. Ethadione. Ethosuximide. Ethotoin. Fluoresone. 5-Hydroxytryptophan. Lamotrigine. Magnesium Bromide. Magnesium Sulfate. Mephenytoin. Mephobarbital. Metharbital. Methetoin. Methsuximide. 5-Methyl-5-(3-phenanthryl)hydantoin. 3-Methyl-5-phenylhydantoin. Narcobarbital. Nimetazepam. Nitrazepam.
- 10 Paramethadione. Phenacemide. Phenetharbital. Pheneturide. Phenobarbital. Phenobarbital Sodium. Phensuximide. Phenylmethylbarbituric Acid. Phenytoin. Phethenylate Sodium. Potassium Bromide. Primidone. Progabide. Sodium Bromide. Solanum. Strontium Bromide. Suclofenide. Sulthiame. Tetrantoin. Trimethadione. Valproic
- 15 Acid. Valpromide. Vigabatrin and Zonisamide.

**31) Antidepressants, including:**

- Bicyclics such as* Binedaline. Caroxazone. Citalopram. Dimethazan. Indalpine. Fencamine. Indeloxazine Hydrochloride. Nefopam. Nomifensine. Oxitriptan. Oxypertine. Paroxetine. Sertraline. Thiazesim.
- 20 Trazodone and Zometapine;
- Hydrazides/Hydrazines such as* Benmoxine. Iproclozide. Iproniazid. Isocarboxazid. Nialamide. Octamoxin and Phenelzine;
- Pyrrolidones such as* Cotinine. Rolicyprine and Rolipram;



*Tetracyclics such as* Maprotiline. Metralindole. Mianserin and Oxaprotiline;  
*Tricyclics such as* Adinazolam. Amitriptyline. Amitriptylinoxide. Amoxapine.  
 Butriptyline. Clomipramine. Demexiptiline. Desipramine. Dibenzepin.  
 Dimetacrine. Dothiepin. Doxepin. Fluacizine. Imipramine. Imipramine N-  
 5 Oxide. Iprindole. Lofepramine. Melitracen. Metapramine. Nortriptyline.  
 Noxiptilin. Opipramol. Pizotyline. Propizepine. Protriptyline. Quinupramine.  
 Tianeptine and Trimipramine; and

*others such as* Adrafinil. Benactyzine. Bupropion. Butacetin. Deanol.  
 Deanol Aceglumate. Deanol Acetamidobenzoate. Dioxadrol. Etooperidone.  
 10 Febarbamate. Femoxetine. Fenpentadiol. Fluoxetine. Fluvoxamine.  
 Hematoporphyrin. Hypercinin. Levophacetoperane. Medifoxamine.  
 Minaprine. Moclobemide. Oxaflorane. Piberaline. Prolintane.  
 Pyrisuccideanol. Rubidium Chloride. Sulpiride. Sultopride. Teniloxazine.  
 Thozalinone. Tofenacin. Toloxatone. Tranlycypromine. L-Tryptophan.  
 15 Viloxazine and Zimeldine.

### **32) Antidiabetics, including:**

*Biguanides such as* Buformin. Metformin and Phenformin;  
*Hormones such as* Glucagon. Insulin. Insulin Injection. Insulin Zinc  
 Suspension. Isophane Insulin Suspension. Protamine Zinc Insulin  
 20 Suspension and Zinc Insulin Crystals;  
*Sulfonylurea derivatives such as* Acetohexamide. 1-Butyl-3-metanilylurea.  
 Carbutamide. Chlorpropamide. Glibornuride. Gliclazide. Glipizide.  
 Gliquidone. Glisoxepid. Glyburide. Glybuthiazol(e). Glybuzole.

Glyhexamide. Glymidine. Glypinamide. Phenbutamide. Tolazamide.  
Tolbutamide and Tolcyclamide; and  
*others such as* Acarbose. Calcium Mesoxalate and Miglitol.

**33) Antidiarrheal drugs such as** Acetyltannic Acid. Albumin Tannate.

- 5    **Alkofanone.** Aluminum Salicylates-Basic. Catechin. Difenoxin.  
Diphenoxylate. Lidamidine. Loperamide. Mebiquine. Trillium and Uzarin.

**34) Antidiuretics such as** Desmopressin. Felypressin. Lypressin.  
Ornipressin. Oxycinchophen. Pituitary-Posterior. Terlipressin and  
Vasopressin.

- 10   **35) Antiestrogens such as** Delmadinone Acetate. Ethamoxytriphetol.  
Tamoxifen and Toremifene.

**36) Antifungal drugs (antibiotics), including:**

*Polyenes such as* Amphotericin-B. Candicidin. Dermostatin. Filipin.  
Fungichromin. Hachimycin. Hamycin. Lucensomycin. Mepartricin.

- 15   **Natamycin.** Nystatin. Pecilocin and Perimycin; and  
*others such as* Azaserine. Griseofulvin. Oligomycins. Neomycin  
Undecylenate. Pyrrolnitrin. Siccanin. Tubercidin and Viridin.

**37) Antifungal drugs (synthetic), including:**

*Allylamines such as* Naftifine and Terbinafine;

- 20   *Imidazoles such as* Bifonazole. Butoconazole. Chlordantoin.  
Chlormidazole. Cloconazole. Clotrimazole. Econazole. Enilconazole.  
Fenticonazole. Isoconazole. Ketoconazole. Miconazole. Omoconazole.  
Oxiconazole Nitrate. Sulconazole and Tioconazole;



*Triazoles such as Fluconazole. Itraconazole and Terconazole; and others such as Acrisorcin. Amorolfine. Biphenamine.*

*Bromosalicylchloranilide. Buclosamide. Calcium Propionate.*

*Chlorphenesin. Ciclopirox. Cloxyquin. Coparaffinate. Diamthazole*

5 *Dihydrochloride. Exalamide. Flucytosine. Halethazole. Hexetidine.*

*Loflucarban. Nifuratel. Potassium Iodide. Propionic Acid. Pyrithione.*

*Salicylanilide. Sodium Propionate. Sulfentine. Tenonitrozole. Tolciclate.*

*Tolindate. Tolnaftate. Triacetin. Ujothion. Undecylenic Acid and Zinc Propionate.*

10 **38) Antiglaucoma drugs such as** Acetazolamide. Befunolol. Betaxolol.

Bupranolol. Carteolol. Dapiprazole. Dichlorphenamide. Dipivefrin.

Epinephrine. Levobunolol. Methazolamide. Metipranolol. Pilocarpine.

Pindolol and Timolol.

**39) Antigonadotropins such as** Danazol. Gestrinone and

15 **Paroxypropione.**

**40) Antigout drugs such as** Allopurinol. Carprofen. Colchicine.

Probenecid and Sulfipyrazone.

**41) Antihistamines, including:**

*Alkylamine derivatives such as* Acrivastine. Bamipine. Brompheniramine.

20 *Chlorpheniramine. Dimethindene. Metron S. Pheniramine. Pyrrobutamine.*

*Thenaldine. Tolpropamine and Triprolidine;*

*Aminoalkyl ethers such as* Bietanautine. Bromodiphenhydramine.

*Carbinoxamine. Clemastine. Diphenylpyraline. Doxylamine. Embramine.*

Medrylamine. Mephenhydramine. p-Methyldiphenhydramine.

Orphenadrine. Phenyltoloxamine. Piprinhydrinate and Setasine;

*Ethylenediamine derivatives such as* Alloclamide. p-Bromtripelennamine.

Chloropyramine. Chlorothen. Histapyrrodine. Methafurylene.

5 Methaphenilene. Methapyrilene. Phenbenzamine. Pyriline. Talastine.

Thenyldiamine. Thonzylamine Hydrochloride. Tripelennamine and  
Zolamine;

*Piperazines such as* Cetirizine. Chlorcyclizine. Cinnarizine. Clocinizine and  
Hydroxyzine;

10 *Tricyclics, including:*

*Phenothiazines such as* Ahistan. Etymemazine. Hydroxyzine. N-  
Hydroxyethylpromethazine Chloride. Isopromethazine. Mequitazine.

Promethazine. Pyrathiazine and Thiazinamium Methyl Sulfate; and

*others such as* Azatadine. Clobenzepam. Cyproheptadine. Deptropine.

15 Isothipendyl. Loratadine and Prothipendyl; and

*other antihistamines such as* Antazoline. Astemizole. Azelastine.

Cetoxime. Clemizole. Clobenztropine. Diphenazoline. Diphenhydramine.

Mebhydroline. Phenindamine. Terfenadine and Tritoqualine.

#### **42) Antihyperlipoproteinemics, including:**

20 *Aryloxyalkanoic acid derivatives such as* Beclobrate. Bezafibrate.

Binifibrate. Ciprofibrate. Clinofibrate. Clofibrate. Clofibric Acid. Etofibrate.

Fenofibrate. Gemfibrozil. Nicofibrate. Pirifibrate. Ronifibrate. Simfibrate  
and Theofibrate;

- Bile acid sequesterants such as Cholestyramine Resin. Colestipol and Polidexide;*
- HMG CoA reductase inhibitors such as Lovastatin. Pravastatin Sodium and Simvastatin;*
- 5 *Nicotinic acid derivatives* Aluminum Nicotinate. Acipimox. Niceritrol. Nicoclonate. Nicomol and Oxiniacic Acid;
- Thyroid hormones and analogs such as Etiroxate. Thyropropic Acid and Thyroxine; and*
- others such as Acifran. Azacosterol. Benfluorex.  $\beta$ -Benzalbutyramide.*
- 10 Carnitine. Chondroitin Sulfate. Clomestrone. Detaxtran. Dextran Sulfate Sodium. 5,8,11,14,17-Eicosapentaenoic Acid. Eritadenine. Furazabol. Meglutol. Melinamide. Mytatrienediol. Ornithine.  $\gamma$ -Oryzanol. Pantethine. Pentaerythritol Tetraacetate.  $\alpha$ -Phenylbutyramide. Pirozadil. Probucol.  $\alpha$ -Sitosterol. Sultosilic Acid. Piperazine Salt. Tiadenol. Triparanol and
- 15 Xenbucin.
- 43) Antihypertensive drugs, including:**
- Arylethanolamine derivatives such as Amosulalol. Bufuralol. Dilevalol. Labetalol. Pronethalol. Sotalol and Sulfinalol;*
- Aryloxypropanolamine derivatives such as Acebutolol. Alprenolol.*
- 20 Arotinolol. Atenolol. Betaxolol. Bevantolol. Bisoprolol. Bopindolol. Bunitrolol. Bupranolol. Butofilolol. Carazolol. Carteolol. Carvedilol. Celiprolol. Cetamolol. Epanolol. Indenolol. Mepindolol. Metipranolol. Metoprolol. Moprolol. Nadolol. Nipradilol. Oxprenolol. Penbutolol. Pindolol.

- Propranolol. Talinolol. Tertatolol. Timolol and Toliprolol;
- Benzothiadiazine derivatives such as* Althiazide. Bendroflumethiazide. Benzthiazide. Benzyhydrochlorothiazide. Buthiazide. Chlorothiazide. Chlorthalidone. Cyclopenthiazide. Cyclothiazide. Diazoxide. Epithiazide.
- 5    Ethiazide. Fenquizone. Hydrochlorothiazide. Hydroflumethiazide. Methyclothiazide. Meticrane. Metolazone. Paraflutizide. Polythiazide. Tetrachlormethiazide and Trichlormethiazide;
- N-Carboxyalkyl (petide/lactam) derivatives such as* Alacepril. Captopril. Cilazapril. Delapril. Enalapril. Enalaprilat. Fosinopril. Lisinopril. Moveltipril.
- 10   Perindopril. Quinapril and Ramipril;
- Dihydropyridine derivatives such as* Amlodipine. Felodipine. Isradipine. Nicardipine. Nifedipine. Nilvadipine. Nisoldipine and Nitrendipine;
- Guanidine derivatives such as* Bethanidine. Debrisoquin. Guanabenz. Guanaciline. Guanadrel. Guanazodine. Guanethidine. Guanfacine.
- 15   Guanochlor. Guanoxabenz and Guanoxan;
- Hydrazines and phthalazines such as* Budralazine. Cadralazine. Dihydralazine. Endralazine. Hydracarbazine. Hydralazine. Pheniprazine. Pildralazine and Todralazine;
- Imidazole derivatives such as* Clonidine. Lofexidine. Phentolamine.
- 20   Tiamenidine and Tolonidine;
- Quaternary ammonium compounds* Azamethonium Bromide. Chlorisondamine Chloride. Hexamethonium. Pentacynium Bis(methyl sulfate). Pentamethonium Bromide. Pentolinium Tartate. Phenactopinium

Chloride and Trimethidinium Methosulfate;

*Quinazoline derivatives such as* Alfuzosin. Bunazosin Doxazosin.

Prazosin. Terazosin and Trimazosin;

*Reserpine derivatives such as* Bietaserpine. Deserpidine. Rescinnamine.

- 5 Reserpine and Syrosingopine;

*Sulfonamide derivatives such as* Ambuside. Clopamide. Furosemide.

Indapamide. Quinethazone. Tripamide and Xipamide; and

*others such as* Ajmaline.  $\gamma$ -Aminobutyric Acid. Bufeniode. Chlorthalidone.

Cicletanine. Ciclosidomine. Cryptenamine Tannates. Fenoldopam.

- 10 Flosequinan. Indoramin. Ketanserin. Mebutamate. Mecamylamine.

Methyldopa. Methyl 4-Pyridyl Ketone Thiosemicarbarzone. Metolazone.

Minoxidil. Muzolimine. Pargyline. Pempidine. Pinacidil. Piperoxan.

Primaperone. Protoveratrines. Raubasine. Rescimetol. Rilmenidene.

Saralasin. Sodium Nitroprusside. Ticrynafen. Trimethaphan Camsylate.

- 15 Tyrosinase and Urapidil.

**44) Antihyperthyroids such as** 2-Amino-4-methylthiazole. 2-

Aminothiazole. Carbimazole. 3,5-Dibromo-L-tyrosine. 3,5-Diiodotyrosine.

Hinderin. Iodine. Iothiouracil. Methimazole. Methylthiouracil.

Propylthiouracil. Sodium Perchlorate. Thibenzazoline. Thiobarbital and 2-

- 20 Thiouracil.

**45) Antihypotensive drugs such as** Amezinium Methyl Sulfate.

Angiotensin Amide. Dimetofrine. Dopamine. Etifelmin. Etilefrin. Gepefrine.

Metaraminol. Midodrine. Norepinephrine. Pholedrine and Synephrine.

**46) Antihypothyroid drugs such as** Levothyroxine Sodium.

Liothyronine. Thyroid. Thyroidin. Thyroxine. Tiratricol and TSH.

**47) Anti-Inflammatory (non-steroidal) drugs, including:**

*Aminoarylcarboxylic acid derivatives such as* Enfenamic Acid.

- 5    Etofenamate. Flufenamic Acid. Isonixin. Meclofenamic Acid. Mefenamic Acid. Niflumic Acid. Talniflumate. Terofenamate and Tolfenamic Acid;

*Arylacetic acid derivatives such as* Acemetacin. Alclofenac. Amfenac.

Bufexamac. Cinmetacin. Clopirac. Diclofenac Sodium. Etodolac. Felbinac. Fenclofenac. Fenclorac. Fenclozic Acid. Fentiazac. Glucametacin.

- 10    Ibufenac. Indomethacin. Isofezolac. Isoxepac. Lonazolac. Metiazinic Acid. Oxametacine. Proglumetacin. Sulindac. Tiaramide. Tolmetin and Zomepirac;

*Arylbutyric acid derivatives such as* Bumadizon. Butibufen. Fenbufen and Xenbucin;

- 15    *Arylcarboxylic acid such as* Clidanac. Ketorolac and Tinoridine;

*Arylpropionic acid derivatives such as* Alminoprofen. Benoxaprofen.

Bucloxic Acid. Carprofen. Fenoprofen. Flunoxaprofen. Flurbiprofen.

Ibuprofen. Ibuproxam. Indoprofen. Ketoprofen. Loxoprofen. Mioprofen.

Naproxen. Oxaprozin. Picketoprofen. Pirprofen. Pranoprofen. Protizinic

- 20    Acid. Suprofen and Tiaprofenic Acid;

*Pyrazoles such as* Difenamizole and Epirizole;

*Pyrazolones such as* Apazone. Benzpiperylon. Feprazone. Mofebutazone.

Morazone. Oxyphenbutazone. Phenylbutazone. Pipebuzone.



- Propyphenazone. Ramifenazone. Suxibuzone and Thiazolinobutazone;  
*Salicylic acid derivatives such as* Acetaminosalol. Aspirin. Benorylate.  
 Bromosaligenin. Calcium Acetylsalicylate. Diflunisal. Etersalate. Fendosal.  
 Gentisic Acid. Glycol Salicylate. Imidazole Salicylate. Lysine  
 5 Acetylsalicylate. Mesalamine. Morpholine Salicylate. 1-Naphthyl Salicylate.  
 Olsalazine. Parsalmide. Phenyl Acetylsalicylate. Phenyl Salicylate.  
 Salacetamide. Salicylamine O-Acetic Acid. Salicylsulfuric Acid. Salsalate  
 and Sulfasalazine;  
*Thiazinecarboxamides such as* Droxicam. Isoxicam. Piroxicam and  
 10 Tenoxicam; and  
*others such as*  $\epsilon$ -Acetamidocaproic Acid. S-Adenosylmethionine. 3-Amino-  
 4-hydroxybutyric Acid. Amixetrine. Bendazac. Benzydamine. Bucolome.  
 Difenpiramide. Ditazol. Emorfazone. Guaiazulene. Nabumetone.  
 Nimesulide. Orgotein. Oxaceprol. Paranyline. Perisoxal. Pifoxime.  
 15 Proquazone. Proxazole and Tenidap.
- 48) Antimalarial drugs such as** Acedapsone. Amodiaquin. Arteether.  
 Artemether. Artemisinin. Artesunate. Bebeerine. Berberine. Chirata.  
 Chlorguanide. Chloroquine. Chlorproguanil. Cinchona. Cinchonidine.  
 Cinchonine. Cycloguanil. Gentiopicrocin. Halofantrine. Hydroxychloroquine.  
 20 Mefloquine Hydrochloride. 3-Methylarsacetin. Pamaquine. Plasmocid.  
 Primaquine. Pyrimethamine. Quinacrine. Quinine. Quinine Bisulfate.  
 Quinine Carbonate. Quinine Dihydrobromide. Quinine Dihydrochloride.  
 Quinine Ethylcarbonate. Quinine Formate. Quinine Gluconate. Quinine

Hydriodide. Quinine Hydrochloride. Quinine Salicylate. Quinine Sulfate. Quinine Tannate. Quinine Urea Hydrochloride. Quinocide. Quinoline and Sodium Arsenate Dibasic.

**49) Antimigraine drugs such as** Alpiropride. Dihydroergotamine.

- 5 Ergocornine. Ergocorninine. Ergocryptine. Ergot. Ergotamine. Flumedroxone acetate. Fonazine. Lisuride. Methysergid(e). Oxetorone. Pizotyline and Sumatriptan.

**50) Antinauseant drugs such as** Acetylleucine Monoethanolamine.

- Alizapride. Benzquinamide. Bietanautine. Bromopride. Buclizine.
- 10 Chlorpromazine. Clebopride. Cyclizine. Dimenhydrinate. Diphenidol. Domperidone. Granisetron. Meclizine. Methallatal. Metoclopramide. Metopimazine. Nabilone. Ondansetron. Oxypendyl. Pipamazine. Piprinhydrinate. Prochlorperazine. Scopolamine. Tetrahydrocannabinols. Thiethylperazine. Thioproperazine and Trimethobenzamide.

- 15 **51) Antineoplastic drugs, including:**

*Alkylating agents, including:*

*Alkyl sulfonates such as* Busulfan. Improsulfan and Piposulfan;

*Aziridines such as* Benzodepa. Carboquone. Meturedopa and Uredopa;

*Ethylenimines and methylmelamines such as* Altretamine.

- 20 Triethylenemelamine. Triethylenephosphoramide.

Triethylenethiophosphoramide and Trimethylolmelamine;

*Nitrogen mustards such as* Chlorambucil. Chlornaphazine.

Cyclophosphamide. Estramustine. Ifosfamide. Mechlorethamine.

Mechlorethamine Oxide Hydrochloride. Melphalan. Novembichin.

Phenesterine. Prednimustine. Trofosfamide and Uracil Mustard;

*Nitrosoureas such as* Carmustine. Chlorozotocin. Fotemustine. Lomustine.

Nimustine and Ranimustine; and

- 5    *others such as* Dacarbazine. Mannomustine. Mitobronitol. Mitolactol and Pipobroman;

*Antibiotics such as* Aclacinomycins. Actinomycin F<sub>1</sub>. Anthramycin.

Azaserine. Bleomycins. Cactinomycin. Carubicin. Carzinophilin.

Chromomycins. Dactinomycin. Daunorubicin. 6-Diazo-5-oxo-L-norleucine.

- 10    Doxorubicin. Epirubicin. Mitomycins. Mycophenolic Acid. Nogalamycin. Olivomycins. Peplomycin. Plicamycin. Porfiromycin. Puromycin. Streptonigrin. Streptozocin. Tubercidin. Ubenimex. Zinostatin and Zorubicin;

*Antimetabolites, including:*

- 15    *Folic acid analogs such as* Denopterin. Methotrexate. Pteropterin and Trimetrexate;

*Purine analogs such as* Fludarabine. 6-Mercaptopurine. Thiamiprine and Thioguanine; and

*Pyrimidine analogs such as* Ancitabine. Azacitidine. 6-Azauridine.

- 20    Carmofur. Cytarabine. Doxifluridine. Enocitabine. Floxuridine. Fluorouracil and Tegafur;

*Enzymes such as* L-Asparaginase; and

*others such as* Aceglatone. Amsacrine. Bestrabucil. Bisantrene.

Carboplatin. Cisplatin. Defosfamide. Demecolcine. Diaziquone.  
 Eflornithine. Elliptinium Acetate. Etoglucid. Etoposide. Gallium Nitrate.  
 Hydroxyurea. Interferon- $\alpha$ . Interferon- $\beta$ . Interferon- $\gamma$ . Interleukin-2.  
 Lentinan. Lonidamine. Mitoguazone. Mitoxantrone. Mopidamol. Nitracrine.  
 5 Pentostatin. Phenamet. Pirarubicin. Podophyllinic Acid. 2-Ethylhydrazide.  
 Procarbazine. PSK®. Razoxane. Sizofiran. Spirogermanium. Taxol.  
 Teniposide. Tenuazonic Acid. Triaziquone. 2,2',2"-Trichlorotriethylamine.  
 Urethan. Vinblastine. Vincristine and Vindesine.

**52) Antineoplastic (hormonal) drugs, including:**

- 10 *Androgens such as* Calusterone. Dromostanolone Propionate.  
 Epitiostanol. Mepitiostane and Testolactone;  
*Antiadrenals such as* Aminoglutethimide. Mitotane and Trilostane;  
*Antiandrogens such as* Flutamide and Nilutamide; and  
*Antiestrogens such as* Tamoxifen and Toremifene.  
 15 **53) Antineoplastic adjuncts including folic acid replenishers such as** Folinic Acid.

**54) Antiparkinsonian drugs such as** Amantadine. Benserazide.  
 Bietanautine. Biperiden. Bromocriptine. Budipine. Carbidopa. Deprenyl.  
 Dextetidine. Diethazine. Droxidopa. Ethopropazine. Ethylbenzhydramine.  
 20 Levodopa. Naxagolide. Pergolide. Piroheptine. Pridinol. Prodipine.  
 Terguride Tigloidine and Trihexyphenidyl Hydrochloride.

**55) Antipheochromocytoma drugs such as** Metyrosine.  
 Phenoxybenzamine and Phentolamine.

**56) Antipneumocystis drugs such as** Eflornithine. Pentamidine and Sulfamethoxazole.

**57) Antiprostatic hypertrophy drugs such as** Gestonorone Caproate. Mepartricin. Oxendolone and Proscar®.

5 **58) Antiprotozoal drugs (Leshmania) such as** Antimony Sodium Gluconate. Ethylstibamine. Hydroxystilbamidine. N-Methylglucamine. Pentamidine. Stilbamidine and Urea Stibamine.

**59) Antiprotozoal drugs (Trichomonas) such as** Acetarsone. Aminitrozole. Anisomycin. Azanidazole. Forminitrazole. Furazolidone. 10 Hachimycin. Lauroguadine. Mepartricin. Metronidazole. Nifuratel. Nifuroxime. Nimorazole. Secnidazole. Silver Picrate. Tenonitrozole and Tinidazole.

**60) Antiprotozoal drugs (Trypanosma) such as** Benznidazole. Eflornithine. Melarsoprol. Nifurtimox. Oxophenarsine. Hydrochloride. 15 Pentamidine. Propamidine. Puromycin. Quinapyramine. Stilbamidine. Suramin Sodium. Trypan Red and Tryparsamide.

**61) Antipuritics such as** Camphor. Cyproheptadine. Dichlorisone. Glycine. Halometasone. 3-Hydroxycamphor. Menthol. Mesulphen. Methdilazine. Phenol. Polidocanol. Risocaine. Spirit of Camphor. 20 Thenaldine. Tolpropamine and Trimeprazine.

**62) Antipsoriatic drugs such as** Acitretin. Ammonium Salicylate. Anthralin. 6-Azauridine. Bergapten(e). Chrysarobin. Etretnate and Pyrogallol.

**63) Antipsychotic drugs, including:**

*Butyrophenones such as* Benperidol. Bromperidol. Droperidol. Fluanisone. Haloperidol. Melperone. Moperone. Pipamperone. Spiperone. Timiperone and Trifluoperidol;

- 5    *Phenothiazines such as* Acetophenazine. Butaperazine. Carphenazine. Chlorproethazine. Chlorpromazine. Clospirazine. Cyamemazine. Dixyrazine. Fluphenazine. Imiclopazine. Mepazine. Mesoridazine. Methoxypromazine. Metofenazate. Oxaflumazine. Perazine. Pericyazine. Perimethazine. Perphenazine. Piperacetazine. Pipotiazine.

- 10   *Prochlorperazine. Promazine. Sulfuridazine. Thiopropazate. Thioridazine. Trifluoperazine and Trifluopromazine;*

*Thioxanthenes such as* Chlorprothixene. Clopenthixol. Flupentixol and Thiothixene;

*other tricyclics such as* Benzquinamide. Carpipramine. Clocapramine.

- 15   *Clomacran. Clothiapine. Clozapine. Opipramol. Prothipendyl. Tetrabenazine and Zotepine; and*

*others such as* Alizapride. Amisulpride. Buramate. Fluspirilene. Molindone. Penfluridol. Pimozide. Spirilene and Sulpiride.

**64) Antipyretics such as** Acetaminophen. Acetaminosalol. Acetanilide.

- 20   Aconine. Aconite. Aconitine. Alclofenac. Aluminum Bis(acetylsalicylate). Aminochlorthenoxazin. Aminopyrine. Aspirin. Benorylate. Benzydamine. Berberine. p-Bromoacetanilide. Bufexamac. Bumadizon. Calcium Acetylsalicylate. Chlorthenoxazin(e). Choline Salicylate. Clidanac.

- Dihydroxyaluminum Acetylsalicylate. Dipyrrocetyl. Dipyrone. Epirizole.  
 Etersalate. Imidazole Salicylate. Indomethacin. Isofezolac. p-  
 Lactophenetide. Lysine Acetylsalicylate. Magnesium Acetylsalicylate.  
 Meclofenamic Acid. Morazone. Morpholine Salicylate. Naproxen.  
 5 Nifenazone. 5'-Nitro-2'propoxyacetanilide. Propoxyacetanilide. Phenacetin.  
 Phenicarbazide. Phenocoll. Phenopyrazone. Phenyl Acetylsalicylate.  
 Phenyl Salicylate. Pipebuzone. Propacetamol. Propyphenazone.  
 Ramifenazone. Salacetamide. Salicylamide O-Acetic Acid. Sodium  
 Salicylate. Sulfamipyrine. Tetrandrine and Tinoridine.  
 10 **65) Antirickettsial drugs such as** p-Aminobenzoic Acid.  
 Chloramphenicol. Chloramphenicol Palmitate. Chloramphenicol  
 Pantothenate and Tetracycline.  
**66) Antiseborrheic drugs such as** Chloroxine. 3-O-Lauroylpyridoxol  
 Diacetate. Piroctone. Pyrithione. Resorcinol. Selenium Sulfides and  
 15 Tioxolone.  
**67) Antiseptics, including:**  
*Guanidines such as* Alexidine. Ambazone. Chlorhexidine and Picloxydine;  
*Halogens and halogen compounds such as* Bismuth Iodide Oxide.  
 Bismuth Iodosubgallate. Bismuth Tribromophenate. Bornyl Chloride.  
 20 Calcium Iodate. Chlorinated Lime. Cloflucarban. Flurosalan. Iodic Acid.  
 Iodine. Iodine Monochloride. Iodine Trichloride. Iodoform. Methenamine  
 Tetraiodine. Oxychlorosene. Povidone-Iodine. Sodium Hypochlorite.  
 Sodium Iodate. Symclosene. Thymol Iodide. Triclocarban. Triclosan and

Troclosene Potassium;

*Mercurial compounds such as* Hydrargaphen. Meralein Sodium.

Merbromin. Mercuric Chloride. Mercuric Chloride Ammoniated. Mercuric Sodium p-Phenolsulfonate. Mercuric Succinimide. Mercuric Sulfide Red.

- 5    Mercurophen. Mercurous Acetate. Mercurous Chloride. Mercurous Iodide. Nitromersol. Potassium Tetraiodomercurate(II). Potassium

Triiodomercurate(II) Solution. Thimerfonate Sodium and Thimerosal;

*Nitrofurans such as* Furazolidone. 2-(Methoxymethyl)-5-nitrofur.

Nidroxyzone. Nifuroxime. Nifurzide and Nitrofurazone;

- 10    *Phenols such as* Acetomerocetol. Bithionol. Cadmium Salicylate. Carvacrol. Chloroxylenol. Clorophene. Creosote. Cresol(s). p-Cresol. Fenticlor. Hexachlorophene. 1-Naphthyl Salicylate. 2-Naphthyl Salicylate. 2,4,6-Tribromo-m-cresol and 3',4',5-Trichlorosalicylanilide;

*Quinolines such as* Aminoquinuride. Benzoxiquine. Broxyquinoline.

- 15    Chloroxine. Chlorquinaldol. Cloxyquin. Ethylhydrocupreine. Euprocine. Halquinol. Hydrastine. 8-Hydroxyquinoline. 8-Hydroxyquinoline Sulfate and Iodochlorhydroxyquin; and

*others such as* Aluminum Acetate Solution. Aluminum Subacetate

Solution. Aluminum Sulfate. 3-Amino-4-hydroxybutyric Acid. Boric Acid.

- 20    Chlorhexidine. Chloroazodin. m-Cresyl Acetate. Cupric Sulfate. Dibromopropamidine. Ichthammol. Negatol®. Noxytiolin. Ornidazole.  $\beta$ -Propiolactone.  $\alpha$ -Terpineol.

**68) Antispasmodic drugs such as** Alibendol. Ambucetamide.



- Aminopromazine. Apoatropine. Bevonium Methyl Sulfate. Bietamiverine. Butaverine. Butropium Bromide. N-Butylscopolammonium Bromide. Caroverine. Cimetropium Bromide. Cinnamedrine. Clebopride. Coniine Hydrobromide. Coniine Hydrochloride. Cyclonium Iodide. Difemerine.
- 5 Diisopromine. Dioxaphetyl Butyrate. Diponium Bromide. Drofenine. Emepromonium Bromide. Ethaverine. Feclamine. Fenalamide. Fenoverine. Fenpiprane. Fenpiverinium Bromide. Fentonium Bromide. Flavoxate. Flopropione. Gluconic Acid. Guaiactamine. Hydramitrazine. Hymecromone. Leiopyrrole. Mebeverine. Moxaverine. Nafiverine.
- 10 Octamylamine. Octaverine. Pentapiperide. Phenamacide Hydrochloride. Phloroglucinol. Pinaverium Bromide. Piperilate. Pipoxolan Hydrochloride. Pramiverin. Prifinium Bromide. Properidine. Propivane. Propyromazine. Prozapine. Racefemine. Rociverine. Spasmolytol. Stilonium Iodide. Sultroponium. Tiemonium Iodide. Tiquizium Bromide. Tiropramide.
- 15 Trepibutone. Tricromyl. Trifolium. Trimebutine. N,N-1Trimethyl-3,3-diphenyl-propylamine. Tropenzile. Trospium Chloride and Xenytropium Bromide.
- 69) Antithrombotic drugs such as** Anagrelide. Argatroban. Cilostazol. Daltroban. Defibrotide. Enoxaparin. Fraxiparine®. Indobufen. Lamoparan.
- 20 Ozagrel. Picotamide. Plafibride. Tedelparin. Ticlopidine and Triflusal.
- 70) Antitussive drugs such as** Alloclamide. Amicibone. Benproperine. Benzonatate. Bibenzonium Bromide. Bromoform. Butamirate. Butethamate. Caramiphen Ethanedisulfonate. Carbetapentane.

- Chlophedianol. Clobutinol. Cloperastine. Codeine. Codeine Methyl Bromide. Codeine N-Oxide. Codeine Phosphate. Codeine Sulfate. Cyclexanone. Dextromethorphan. Dibunate Sodium. Dihydrocodeine. Dihydrocodeinone Enol Acetate. Dimemorfan. Dimethoxanate.  $\alpha, \alpha$ -
- 5 Diphenyl-2-piperidinepropanol. Dropropizine. Drotebanol. Eprazinone. Ethyl Dibunate. Ethylmorphine. Fominoben. Guaiapate. Hydrocodone. Isoaminile. Levopropoxyphene. Morclofone. Narceine. Normethadone. Noscapine. Oxeladin. Oxolamine. Pholcodine. Picoperine. Pipazethate. Piperidione. Prenoxdiazine Hydrochloride. Racemethorphan. Taziprinone
- 10 Hydrochloride. Tipecidine and Zipeprol.
- 71) Antiulcerative drugs such as** Aceglutamide Aluminum Complex.  $\epsilon$ -Acetamidocaproic Acid Zinc Salt. Acetoxolone. Arbaprostil. Benexate Hydrochloride. Bismuth Subcitrate Sol (Dried). Carbenoxolone. Cetraxate. Cimetidine. Enprostil. Esaprazole. Famotidine. Ftaxilide. Gefarnate.
- 15 Guaiazulene. Irsogladine. Misoprostol. Nizatidine. Omeprazole. Ornoprostil.  $\gamma$ -Oryzanol. Pifarnine. Pirenzepine. Plaunotol. Ranitidine. Rioprostil. Rosaprostol. Rotraxate. Roxatidine Acetate. Sofalcone. Spizofurone. Sucralfate. Teprenone. Trimoprostil. Trithiozine. Troxipide and Zolimidine.
- 20 **72) Antiurolithic drugs such as** Acetohydroxamic Acid. Allopurinol. Potassium Citrate and Succinimide.
- 73) Antivenin drugs such as** Lyovac® Antivenin.
- 74) Antiviral drugs, including:**

- Purines and pyrimidinones such as Acyclovir. Cytarabine. Dideoxyadenosine. Dideoxycytidine. Dideoxyinosine. Edoxudine. Floxuridine. Ganciclovir. Idoxuridine. Inosine Pranobex. MADU. Trifluridine. Vidarabine and Zidovudine; and*
- 5 *others such as Acetylleucine Monoethanolamine. Amantadine. Amidinomycin. Cuminaldehyde Thiosemicarbazone. Foscarnet Sodium. Interferon- $\alpha$ . Interferon- $\beta$ . Interferon- $\gamma$ . Kethoxal. Lysozyme. Methisazone. Moroxydine. Podophyllotoxin. Ribavirin. Rimantadine. Stallimycin. Statolon. Tromantadine and Xenazoic Acid.*
- 10 **75) Anxiolytic drugs, including:**
- Aryl piperazines such as Buspirone. Gepirone and Ipsapirone; Benzodiazepine derivatives such as Alprazolam. Bromazepam. Camazepam. Chlordiazepoxide. Clobazam. Clorazepate. Clotiazepam. Cloxazolam. Diazepam. Ethyl Loflazepate. Etizolam. Fludiazepam. Flutazolam. Flutoprazepam. Halazepam. Ketazolam. Lorazepam. Loxapine. Medazepam. Metaclozepam. Mexazolam. Nordazepam. Oxazepam. Oxazolam. Pinazepam. Prazepam and Tofisopam; Carbamates such as Cyclarbamate. Emylcamate. Hydroxyphenamate. Meprobamate. Phenprobamate and Tybamate; and*
- 20 *others such as Alpidem. Benzoctamine. Captodiamine. Chlormezanone. Etifoxine. Fluoresone. Glutamic Acid. Hydroxyzine. Mecloralurea. Mephenoxalone. Oxanamide. Phenaglycodol. Suriclone.*
- 76) Benzodiazepine antagonists such as Flumazenil.**

**77) Bronchodilators, including:**

*Ephedrine derivatives such as* Albuterol. Bambuterol. Bitolterol.

Carbuterol. Clenbuterol. Clorprenaline. Dioxethedrine. Ephedrine.

Epinephrine. Eprozinol. Etafedrine. Ethylnorepinephrine. Fenoterol.

- 5    Hexoprenaline. Isoetharine. Isoproterenol. Mabuterol. Metaproterenol. N-Methylephedrine. Pirbuterol. Procaterol. Protokylol. Reproterol. Rimiterol. Soterenol. Terbuterol and Tulobuterol;

*Quaternary ammonium compounds such as* Bevonium Methyl Sulfate.

Flutropium Bromide. Ipratropium Bromide and Oxitropium Bromide;

- 10   *Xanthine derivatives such as* Acefylline. Acefylline Piperazine. Ambuphylline. Aminophylline. Bamifylline. Choline Theophyllinate. Doxofylline. Dyphylline. Enprofylline. Etamiphyllin. Etofylline. Guaithylline. Proxyphylline. Theobromine. 1-Theobromineacetic Acid and Theophylline; and
- 15   *others such as* Fenspiride. Medibazine. Methoxyphenanime and Tretoquinol.

**78) Calcium channel blockers, including:**

*Arylalkylamines such as* Bepridil. Diltiazem. Fendiline. Gallopanil.

Prenylamine. Terodiline and Verapamil;

- 20   *Dihydropyridine derivatives such as* Felodipine. Isradipine. Nicardipine. Nifedipine. Nilvadipine. Nimodipine. Nisoldipine and Nitrendipine;
- Piperazine derivatives such as* Cinnarizine. Flunarizine and Lidoflazine; and

*others such as Bencyclane. Etafenone and Perhexiline.*

**79) Calcium regulators such as** Calcifediol. Calcitonin. Calcitriol.

Clodronic Acid. Dihydratichysterol. Elcatonin. Etidronic Acid. Ipriflavone.

Pamidronic Acid. Parathyroid Hormone and Teriparatide Acetate.

5 **80) Cardiotonics such as** Acefylline. Acetyldigitoxins. 2-Amino-4-picoline. Amrinone. Benfurodil Hemisuccinate. Bucladesine. Cerberoside.

Camphotamide. Convallatoxin. Cymarin. Denopamine. Deslanoside.

Digitalin. Digitalis. Digitoxin. Digoxin. Dobutamine. Dopamine.

Dopexamine. Enoximone. Erythrophleine. Fenalcomine. Gitalin. Gitoxin.

10 Glycocycamine. Heptaminol. Hydrastinine. Ibopamine. Lanatosides.

Metamivam. Milrinone. Neriifolin. Oleandrin. Ouabain. Oxyfedrine.

Prenalterol. Proscillaridin. Resibufogenin. Scillaren. Scillarenin.

Strophanthin. Sulmazole. Theobromine and Xamoterol.

**81) Chelating agents such as** Deferoxamine. Ditiocarb Sodium.

15 Edetate Calcium Disodium. Edetate Disodium. Edetate Sodium. Edetate

Trisodium. Penicillamine. Pentetate Calcium Trisodium. Pentetic Acid.

Succimer and Trientine.

**82) Cholecystokinin antagonists such as** Proglumide.

**83) Cholelitholytic agents such as** Chenodiol. Methyl tert-Butyl Ether.

20 Monoctanoic and Ursodiol.

**84) Choleretics such as** Alibendol. Anethole Trithion. Azintamide.

Cholic Acid. Cicrotoic Acid. Clanobutin. Cyclobutyrol. Cyclovalone.

Cynarin(e). Dehydrocholic Acid. Deoxycholic Acid. Dimecrotic Acid.  $\alpha$ -

Ethylbenzyl Alcohol. Exiproben. Feguprol. Fencibutirol. Fenipentol.  
 Florantyrone. Hymecromone. Menbutone. 3-(o-Methoxyphenyl)-2-  
 phenylacrylic Acid. Metochalcone. Moquizone. Osalmid. Ox Bile Extract.  
 4,4'-Oxydi-2-butanol. Piprozolin. Prozapine. 4-Salicyloylmorpholine.

- 5 Sincalide. Taurocholic Acid. Timonacic. Tocamphyl. Trepibutone and  
 Vanitiolide.

**85) Cholinergic agents such as** Aceclidine. Acetylcholine Bromide.

- Acetylcholine Chloride. Aclatonium Napadisilate. Benzpyrinium Bromide.  
 Bethanechol Chloride. Carbachol. Carpronium Chloride. Demecarium  
 10 Bromide. Dexpanthenol. Diisopropyl Paraaxon. Echothiophate Iodide.  
 Edrophonium Chloride. Eseridine. Furtrethonium. Isoflurophate.  
 Methacholine Chloride. Muscarine. Neostigmine. Oxapropanium Iodide.  
 Physostigmine and Pyridostigmine Bromide.

**86) Cholinesterase inhibitors such as** Ambenonium Chloride.

- 15 Distigmine Bromide and Galanthamine.

**87) Cholinesterase reactivators such as** Obidoxime Chloride and  
 Pralidoxime Chloride.

**88) Central nervous system stimulants and agents such as**

- Amineptine. Amphetamine. Amphetaminil. Bemegride. Benzphetamine.  
 20 Brucine. Caffeine. Chlorphentermine. Clofenciclan. Clortermine. Coca.  
 Demanyl Phosphate. Dexoxadrol. Dextroamphetamine Sulfate.  
 Diethylpropion. N-Ethylamphetamine. Ethamivan. Etifelmin. Etryptamine.  
 Fencamfamine. Fenethylline. Fenozolone. Flurothyl. Hexacyclonate



Sodium. Homocamfin. Mazindol. Mefexamide. Methamphetamine.

Methylphenidate. Nikethamide. Pemoline. Pentylenetetrazole.

Phendimetrazine. Phenmetrazine. Phentermine. Picrotoxin. Pipradrol.

Prolintane and Pyrovalerone.

- 5    **89) Decongestants such as** Amidephrine. Cafaminol. Cyclopentamine.

Ephedrine. Epinephrine. Fenoxazoline. Indanazoline. Metizoline.

Naphazoline. Nordefrin Hydrochloride. Octodrine. Oxymetazoline.

Phenylephrine Hydrochloride. Phenylpropanolamine Hydrochloride.

Phenylpropylmethylamine. Propylhexedrine. Pseudoephedrine.

- 10    Tetrahydrozoline. Tymazoline and Xylometazoline.

**90) Dental caries prophylaxis such as** Sodium Fluoride.

**91) Depigmentors such as** Hydroquinine. Hydroquinone and Monobenzone.

**92) Diuretics, including:**

- 15    *Organomercurials such as* Chlormerodrin. Meralluride. Mercamphamide.

Mercaptomerin Sodium. Mercumallylic Acid. Mercumatilin Sodium.

Mercurous Chloride and Mersalyl;

*Pteridines such as* Furterene and Triamterene;

*Purines such as* Acefylline. 7-Morpholinomethyltheophylline. Pamabrom.

- 20    Protheobromine and Theobromine;

*Steroids such as* Canrenone. Oleandrin and Spironolactone;

*Sulfonamide derivatives such as* Acetazolamide. Ambuside. Azosemide.

Bumetanide. Butazolamide. Chloraminophenamide. Clofenamide.



Clopamide. Clorexolone. Diphenylmethane-4,4'-disulfonamide.  
Disulfamide. Ethoxzolamide. Furosemide. Indapamide. Mefruside.  
Methazolamide. Piretanide. Quinethazone. Torasemide. Triamide and  
Xipamide;

- 5 *Uracils such as* Aminometradine and Amisometradine;  
*others such as* Amanozone. Amiloride. Arbutin. Chlorazanyl. Ethacrynic  
Acid. Etosolin. Hydracarbazine. Isosorbide. Mannitol. Metochalcone.  
Muzolimine. Perhexiline. Ticrynafen and Urea.

**93) Dopamine receptor agonists such as** Bromocriptine. Dopexamine.

- 10 Fenoldopam. Ibopamine. Lisuride. Naxagolide and Pergolide.

**94) Ectoparasitocides such as** Amitraz. Benzyl Benzoate. Carbaryl.  
Crotamiton. DDT. Dixanthogen. Isobornyl Thiocyanacetate-Technical.  
Lime Sulfurated Solution. Lindane. Malathion. Mercuric Oleate. Mesulphen  
and Sulphur-Pharmaceutical.

- 15 **95) Enzymes, including:**

*Digestive enzymes such as*  $\alpha$ -Amylase (Swine Pancreas). Lipase.

Pancrelipase. Pepsin and Rennin;

*Mucolytic enzymes such as* Lysozyme;

*Penicillin inactivating enzymes such as* Penicillinase; and

- 20 *Proteolytic enzymes such as* Collagenase. Chymopapain. Chymotrypsins.  
Papain and Trypsin.

**96) Enzyme inducers (hepatic) such as** Flumecinol.

**97) Estrogens, including:**



*Nonsteroidal estrogens such as* Benzestrol. Broparoestrol.

Chlorotrianisene. Dienestrol. Diethylstilbestrol. Diethylstilbestrol Dipropionate. Dimestrol. Fosfestrol. Hexestrol. Methallenestril and Methestrol; and

- 5    *Steroidal estrogens such as* Colpormon. Conjugated Estrogenic Hormones. Equilenin. Equilin. Estradiol. Estradiol Benzoate. Estradiol 17 $\beta$ -Cypionate. Estriol. Estrone. Ethinyl Estradiol. Mestranol. Moxestrol. Mytatrienediol. Quinestradiol and Quinestrol.

**98) Gastric secretion inhibitors such as** Enterogastrone and

- 10    Octreotide.

**99) Glucocorticoids such as** 21-Acetoxypregnenolone. Alclometasone. Algestone. Amcinonide. Beclomethasone. Betamethasone. Budesonide. Chloroprednisone. Clobetasol. Clobetasone. Clocortolone. Cloprednol. Corticosterone. Cortisone. Cortivazol. Deflazacort. Desonide.

- 15    Desoximetasone. Dexamethasone. Diflorasone. Diflucortolone. Difluprednate. Enoxolone. Fluazacort. Flucloronide. Flumethasone. Flunisolide. Fluocinolone Acetonide. Fluocinonide. Fluocortin Butyl. Fluocortolone. Fluorometholone. Fluperolone Acetate. Fluprednidene Acetate. Fluprednisolone. Flurandrenolide. Formocortal. Halcinonide.
- 20    Halometasone. Halopredone Acetate. Hydrocortamate. Hydrocortisone. Hydrocortisone Acetate. Hydrocortisone Phosphate. Hydrocortisone 21-Sodium Succinate. Hydrocortisone Tebutate. Mazipredone. Medrysone. Meprednisone. Methylprednisolone. Mometasone Furoate.



Paramethasone. Prednicarbate. Prednisolone. Prednisolone 21-Diethylaminoacetate. Prednisone Sodium Phosphate. Prednisolone Sodium Succinate. Prednisolone Sodium 21-m-Sulfobenzoate. Prednisolone 21-Stearoylglycolate. Prednisolone Tebutate. Prednisolone

5 21-Trimethylacetate. Prednisone. Prednival. Prednylidene. Prednylidene 21-Diethylaminoacetate. Tixocortal. Triamcinolone. Triamcinolone Acetonide. Triamcinolone Benetonide and Triamcinolone Hexacetonide.

**100) Gonad-Stimulating principles such as** Buserelin. Clomiphene. Cyclofenil. Epimestrol. FSH. HCG and LH-RH.

10 **101) Gonadotropic hormones such as** LH and PMSG.

**102) Growth hormone inhibitors such as** Octreotide and Somatostatin.

**103) Growth hormone releasing factors such as** Semorelin.

**104) Growth stimulants such as** Somatotropin.

**105) Hemolytic agents such as** Phenylhydrazine and Phenylhydrazine

15 Hydrochloride.

**106) Heparin antagonists such as** Hexadimethrine Bromide and Protamines.

**107) Hepatoprotectants such as** S-Adenosylmethionine. Betaine. Catechin. Citolone. Malotilate. Orazamide. Phosphorylcholine.

20 **Protoporphyrin IX. Silymarin-Group. Thiocetic Acid and Tiopronin.**

**108) Immunomodulators such as** Amiprilose. Bucillamine. Ditiocarb Sodium. Inosine Pranobex. Interferon- $\gamma$ . Interleukin-2. Lentinan.

Muroctasin. Platonin. Procodazole. Tetramisole. Thymomodulin.



Thymopentin and Ubenimex.

**109) Immunosuppressants such as** Azathioprine. Cyclosporins and Mizoribine.

**110) Ion exchange resins such as** Carbacrylic Resins. Cholestyramine  
5 Resin. Colestipol. Polidexide. Resodec and Sodium Polystyrene Sulfonate.

**111) Lactation stimulating hormone such as** Prolactin.

**112) LH-RH agonists such as** Buserelin. Goserelin. Leuprolide. Nafarelin and Triptorelin.

**113) Lipotropic agents such as** N-Acetylmethionine. Choline Chloride.  
10 Choline Dehydrocholate. Choline Dihydrogen Citrate. Inositol. Lecithin and Methionine.

**114) Lupus erythematosus suppressants such as** Bismuth Sodium Triglycollamate. Bismuth Subsalcylate. Chloroquine and Hydroxychloroquine.

15 **115) Mineralcorticoids such as** Aldosterone. Deoxycorticosterone. Deoxycorticosterone Acetate and Fludrocortisone.

**116) Miotic drugs such as** Carbachol. Physostigmine. Pilocarpine and Pilocarpus.

**117) Monoamine oxidase inhibitors such as** Deprenyl. Iproclozide.  
20 Iproniazid. Isocarboxazid. Moclobemide. Octamoxin. Pargyline. Phenelzine. Phenoxypropazine. Pivalylbenzhydrazine. Prodipine. Toloxatone and Tranylcypromine.

**118) Mucolytic agents such as** Acetylcysteine. Bromhexine.

Carbocysteine. Domiodol. Letosteine. Lysozyme. Mecysteine  
Hydrochloride. Mesna. Sobrerol. Stepronin. Tiopronin and Tyloxapol.

**119) Muscle relaxants (skeletal) such as** Afloqualone. Alcuronium.

- 5 Atracurium Besylate. Baclofen. Benzocetamine. Benzoquinonium Chloride.  
C-Calebassine. Carisoprodol. Chlormezanone. Chlorphenesin Carbamate.  
Chlorproethazine. Chlorzoxazone. Curare. Cyclarbamate.  
Cyclobenzaprine. Dantrolene. Decamethonium Bromide. Diazepam.  
Eperisone. Fazadinium Bromide. Flumetramide. Gallamine Triethiodide.
- 10 Hexacarbacholine Bromide. Hexafluorenum Bromide. Idrocilamide.  
Laudexium Methyl Sulfate. Leptodactyline. Memantine. Mephenesin.  
Mephenoxalone. Metaxalone. Methocarbamol. Metocurine Iodide.  
Nimetazepam. Orphenadrine. Pancuronium Bromide. Phenprobamate.  
Phenyramidol. Pipecurium Bromide. Promoxolane. Quinine Sulfate.
- 15 Styramate. Succinylcholine Bromide. Succinylcholine Chloride.  
Succinylcholine Iodine. Suxethonium Bromide. Tetrazepam.  
Thiocolchicoside. Tizanidine. Tolperisone. Tubocurarine Chloride.  
Vecuronium Bromide and Zoxazolamine.

**120) Narcotic antagonists such as** Amiphenazole. Cyclazocine.

- 20 Levallorphan. Nadide. Nalmefene. Nalorphine. Nalorphine Dinicotinate.  
Naloxone and Naltrexone.

**121) Neuroprotective agents such as** Dizocilpine.

**122) Nootropic agents such as** Aceglutamide. Acetylcarnitine. Aniracetam. Bifemelane. Exifone. Fipexide. Idebenone. Indeloxazine Hydrochloride. Nizofenone. Oxiracetam. Piracetam. Propentofylline. Pyritinol and Tacrine.

5 **123) Ophthalmic agents such as** 15-ketoprostaglandins.

**124) Ovarian hormone such as** Relaxin.

**125) Oxytocic drugs such as** Carboprost. Cargutocin. Deaminooxytocin. Ergonovine. Gemeprost. Methylergonovine. Oxytocin. Pituitary (Posterior). Prostaglandin E<sub>2</sub>. Prostaglandin F<sub>2</sub> $\alpha$  and Sparteine.

10 **126) Pepsin inhibitors such as** Sodium Amylosulfate.

**127) Peristaltic stimulants such as** Cisapride.

**128) Progestogens such as** Allylestrenol. Anagestone. Chlormadinone Acetate. Delmadinone Acetate. Demegestone. Desogestrel. Dimethisterone. Dydrogesterone. Ethisterone. Ethynodiol. Flurogestone

15 Acetate. Gestodene. Gestonorone Caproate. Haloprogestone. 17-Hydroxy-16-methylene-progesterone. 17 $\alpha$ -Hydroxyprogesterone. 17 $\alpha$ -Hydroxyprogesterone Caproate. Lynestrenol. Medrogestone. Medroxyprogesterone. Megestrol Acetate. Melengestrol. Norethindrone. Norethynodrel. Norgesterone. Norgestimate. Norgestrel. Norgestrienone.

20 Norvinisterone. Pentagestrone. Progesterone. Promegestone. Quingestron and Trengestone.

**129) Prolactin inhibitors such as** Metergoline.

**130) Prostaglandins and prostaglandin analogs such as** Arbabrostil.

Carboprost. Enprostil. Gemeprost. Limaprost. Misoprostol. Ornoprostil.

Prostacyclin. Prostaglandin E<sub>1</sub>. Prostaglandin E<sub>2</sub>. Prostaglandin F<sub>2α</sub>.

Rioprostil. Rosaprostol. Sulprostone and Trimoprostil.

- 5   **131) Protease inhibitors such as** Aprotinin. Camostat. Gabexate and Nafamostat.

**132) Respiratory stimulants such as** Almitrine. Bemegride. Carbon

Dioxide. Cropropamide. Crotethamide. Dimeflin. Dimorpholamine.

Doxapram. Ethamivam. Fominoben. Lobeline. Mepixanox. Metamivam.

- 10   Nikethamide. Picrotoxin. Pimeclone. Pyridofylline. Sodium Succinate and Tacrine.

**133) Sclerosing agents such as** Ethanolamine. Ethylamine. 2-

Hexyldecanoic Acid. Polidocanol. Quinine Bisulfate. Quinine Urea

Hydrochloride. Sodium Ricinoleate. Sodium Tetradecyl Sulfate and

- 15   Tribenoside.

**134) Sedatives and hypnotics, including:***Acyclic ureides such as* Acecarbromal. Apronalide. Bomisovalum.

Capuride. Carbromal and Ectylurea;

*Alcohols such as* Chlorhexadol. Ethchlorvynol. Meparfynol. 4-Methyl-5-

- 20   thiazoleethanol. tert-Pentyl Alcohol and 2,2,2-Trichloroethanol;

*Amides such as* Butoctamide. Diethylbromoacetamide. Ibrotamide.

Isovaleryl Diethylamide. Niaprazine. Tricetamide. Trimetozine. Zolpidem and Zopiclone;

- Barbituric acid derivatives such as* Allobarbital. Amobarbital. Aprobarbital. Barbital. Brallobarbital. Butabarbital Sodium. Butalbital. Butallylonal. Butethal. Carbubarb. Cyclobarbital. Cyclopentobarbital. Enallylpropymal. 5-Ehtyl-5-(1-piperidyl) barbituric Acid. 5-Furfuryl-5-isopropylbarbituric Acid.
- 5 Heptabarbital. Hexethal Sodium. Hexobarbital. Mephobarbital. Methitural. Narcobarbital. Nealbarbital. Pentobarbital Sodium. Phenallymal. Phenobarbital. Phenobarbital Sodium. Phenylmethylbarbituric Acid. Probarbital. Propallylonal. Proxibarbal. Reposal. Secobarbitol Sodium. Talbutal. Tetrabarbitol. Vinbarbitol Sodium and Vinylbital;
- 10 *Benzodiazepine derivatives such as* Brotizolam. Doxefazepam. Estazolam. Flunitrazepam. Flurazepam. Haloxazolam. Loprazolam. Lormetazepam. Nitrazepam. Quazepam. Temazepam and Triazolam;
- Bromides such as* Ammonium Bromide. Calcium Bromide. Calcium Bromolactobionate. Lithium Bromide. Magnesium Bromide. Potassium Bromide and Sodium Bromide;
- 15 *Carbamates such as* Amyl Carbamate-Tertiary. Ethinamate. Hexapropymate. Meparfynol Carbamate. Novonal and Trichlorourethan;
- Chloral derivatives such as* Carbocloral. Chloral Betaine. Chloral Formamide. Chloral Hydrate. Chloralantipyrine. Dichloralphenazone.
- 20 Pentaerythritol Chloral and Triclofos;
- Piperidinediones such as* Glutethimide. Methypylon. Piperidione. Pyrrithyldione. Taglutimide and Thalidomide;

*Quinazalone derivatives such as* Etaqualone. Mecloqualone and Methaqualone; and

*others such as* Acetal. Acetophenone. Aldol. Ammonium Valerate. Amphenidone. d-Bornyl  $\alpha$ -Bromoisovalerate. d-Bornyl Isovalerate.

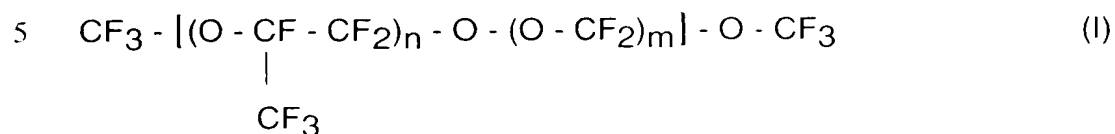
- 5 Bromoform. Calcium 2-Ethylbutanoate. Carfinat.  $\alpha$ -Chloralose. Clomethiazole. Cypridipium. Doxylamine. Etodroxizine. Etomidate. Fenadiazole. Homofenazine. Hydrobromic Acid. Meclozamine. Menthyl Valerate. Opium. Paraldehyde. Perlapine. Propiomazine. Rilmazafone. Sodium Oxybate. Sulfonethylmethane and Sulfonmethane.
- 10 **135) Thrombolytic agents such as** APSAC. Plasmin. Pro-Urokinase. Streptokinase. Tissue Plasminogen Activator and Urokinase.  
**136) Thyrotropic hormones such as** TRH and TSH.  
**137) Uricosurics such as** Benzbromarone. Ethebenecid. Orotic Acid. Oxycinchophen. Probenecid. Sulfinpyrazone. Ticrynafen and
- 15 Zoxazolamine.  
**138) Vasodilators (cerebral) such as** Bencyclane. Cinnarizine. Citicoline. Cyclandelate. Ciclonicate. Diisopropylamine Dichloroacetate. Eburnamonine. Fenoxedil. Flunarizine. Ibudilast. Ifenprodil. Nafronyl. Nicametate. Nicergoline. Nimodipine. Papaverine. Pentifylline. Tinofedrine.
- 20 Vincamine. Vinpocetine and Viquidil.  
**139) Vasodilators (coronary) such as** Amotriphene. Bendazol. Benfurodil Hemisuccinate. Benziodarone. Chloracizine. Chromonar. Clobenfurol. Clonitrate. Dilazep. Dipyridamole. Droprenilamine. Efloxate.



- Erythritol. Erythrityl Tetranitrate. Etafenone. Fendiline. Floredil.  
 Ganglefene. Hexestrol Bis( $\beta$ -diethylaminoethyl ether). Hexobendine.  
 Itramin Tosylate. Khellin. Lidoflazine. Mannitol Hexanitrate. Medibazine.  
 Nicorandil. Nitroglycerin. Pentaerythritol Tetranitrate. Pentrinitrol.  
 5 Perhexiline. Pimefylline. Prenylamine. Propatyl Nitrate. Pyridofylline.  
 Trepidil. Tricromyl. Trimetazidine. Trolnitrate Phosphate and Visnadine.
- 140) Vasodilators (peripheral) such as** Aluminum Nicotinate. Bamethan.  
 Bencyclane. Betahistine. Bradykinin. Brovincamine. Bufoniode. Buflomedil.  
 Butalamine. Cetiedil. Ciclonicate. Cinepazide. Cinnarizine. Cyclandelate.  
 10 Diisopropylamine Dichloracetate. Eledoisin. Fenoxedil. Flunarizine.  
 Hepronicate. Ifenprodil. Inositol Niacinate. Isoxsuprine. Kallidin. Kallikrein.  
 Moxisylyte. Nafronyl. Nicametate. Nicergoline. Nicofuranose. Nicotinyll  
 Alcohol. Nylidrin. Pentifylline. Pentoxifylline. Piribedil. Prostaglandin E<sub>1</sub>.  
 Suloctidil and Xanthinol Niacinate.
- 15 **141) Vasoprotectants such as** Benzarone. Bioflavonoids. Chromocarb.  
 Clobenoside. Diosmin. Dobesilate Calcium. Escin. Folescutol.  
 Leucocyanidin. Metescufylline. Quercetin. Rutin and Troxerutin.
- 142) Vitamins, vitamin sources and vitamin extracts such as** Vitamins  
 A, B, C, D, E and K and derivatives thereof. Calciferols. Glycyrrhiza and  
 20 Mecobalamin.
- 143) Vulnerary agents such as** Acetylcysteine. Allantoin. Asiaticoside.  
 Cadexomer Iodine. Chitin. Dextranomer and Oxaceprol.

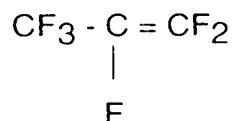
The use referred to herein increases percutaneous absorption of drugs by over 5 times their normal capacity.

Finally, the invention also regards the compounds belonging to the Perfluoropolyester class of formula I



with n and m > 18 and < 46 and with molecular weights between ~600 and ~8000, especially those with n and m > 24 and < 36 with molecular

- 10 weights between 1000 and 4000, obtained by polymerization of hexafluoropropene



- 15 with UV activated oxygen.